Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

June 24, 2025

Submitted online via OCD E-Permitting:
https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Mr. Nelson Velez
New Mexico Energy, Minerals & Natural Resources
Department – Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Site Characterization Report and Deferment Request (Ensolum, August 31, 2023)
Enterprise Field Services, LLC
Blanco Vent Tank Release
San Juan Co., NM [S14, T29N R11W (36.73019° N, 107.96524° W)]
OCD RP: 3R-13659

Dear Mr. Velez:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, submits to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) one electronic copy of the above referenced document (Submittal) that was prepared by Ensolum, LLC (Ensolum) and dated August 31, 2023. The Submittal is associated with the Enterprise Blanco Vent Tank release of natural gas condensate liquids that occurred on December 11, 2011 from a vent tank, located in San Juan County, New Mexico. The information detailed in the attached document summarizes remediation and investigation activities performed at the above-referenced location (hereinafter referred to as "the Site") between January 1, 2020 and April 30, 2023 (the "reporting period"). The remediation was performed to remove on-site soils with constituent of concern (COC) concentrations exceeding the applicable New Mexico EMNRD OCD closure criteria. The additional site investigation was performed to further evaluate the extent of hydrocarbon impact to soil at the western extent of the remediation area. Previous activities relating to this release are described in the following documents:

- Corrective Action Report (Southwest Geoscience, January 6, 2012)
- Supplemental Site Investigation Report (2014) (Apex, December 11, 2014)
- Supplemental Site Investigation Report (2015) (Apex, July 2, 2015 (Figures updated November 24, 2015))
- Soil Remediation Plan (Apex, December 6, 2018)

Based on the data contained in this Submittal, petroleum hydrocarbon soil remains in excess of the New Mexico EMNRD OCD closure criteria along the Transwestern pipeline and near the Hilcorp Energy Company evaporation pond. The soils in the remaining portions of the excavation did not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria. Groundwater was not encountered during remediation and investigation activities.

Based on the findings and conclusions included in the report, Enterprise plans to: 1) Pursuant to Paragraph (2) of Subsection C of 19.15.29.12 NMAC request deferment of final remediation, reclamation, and revegetation at the Site to address the soil requirements of Paragraph (1) of Subsection D of 19.15.29.13 NMAC until after both facilities are decommissioned, to avoid damaging existing structures/appurtenances.

Should you have any questions, comments, concerns, or require additional information, please contact Valerie Phipps via email (vphipps@eprod.com) or phone (713-863-5060), or Tucker Jacobson via email (wtjacobson@eprod.com) or phone (713-381-4313).

Sincerely,

Valerie Phipps
Engineer, Staff Environmental

Tucker Jacobson
Manager, Environmental

cc: Ensolum, Houston, TX – Mr. Daniel Moir <Dmoir@ensolum.com>

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ENSOLUM

Site Characterization Report and Deferment Request

Property:

Blanco Vent Tank Release
Unit Letter C, S14 T29N R11W
Bloomfield, San Juan County, New Mexico

New Mexico EMNRD OCD RP No. 3RP-13659

August 31, 2023

Ensolum Project No. 05A1226012

Prepared for:

Enterprise Field Services, LLC
P.O. Box 4324
Houston, TX 77210-4324
Attn: Mr. Gregory E. Miller, PG

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

This report documents the 2020 soil remediation and 2022 supplemental soil delineation activities conducted at the Blanco Vent Tank Release site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Blanco Vent Tank Release
Location:	36.73019° North, 107.96524° West Unit Letter C, Section 14, Township 29 North, Range 11 West San Juan County, New Mexico
Property:	Private Land (El Paso Natural Gas Company)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On December 7, 2011, an unknown quantity of natural gas condensate and water was released into an unlined secondary containment, as a result of an accidental overflow of the vent tank. Soil removal activities were initiated on December 14, 2011 and resulted in the removal of approximately 1,077 cubic yards of petroleum hydrocarbon affected soil, which was subsequently transported to the Envirotech, Inc., (Envirotech) landfarm facility near Hilltop, New Mexico for treatment/disposal. Due to operational and safety considerations, including third-party pipeline right-of-ways (ROWs), lateral expansion of the December 2011 excavation was halted. The excavation was backfilled with clean fill to surrounding grade, and a new, lined containment area was constructed to house the methanol and vent tanks. Details of the corrective action activities are provided in the *Corrective Action Report* (Southwest Geoscience (now Apex TITAN, Inc. (Apex)), January 6, 2012).

During 2014, the vent tank was taken out of service and removed from the Site.

During October 2014, Apex implemented a site investigation to further define the extent of the remaining hydrocarbon impact at the Site. The investigation included the advancement of 13 small trenches around the former excavation perimeter. Details of the supplemental site investigation (SSI) are provided in the *Supplemental Site Investigation Report (2014)* (Apex, December 11, 2014).

Additional SSI activities were performed during May 2015, when Apex advanced nine soil borings in the vicinity of the release to further evaluate the magnitude and extent of the remaining hydrocarbon impact at the Site. Based on the laboratory analytical results for soil samples collected from the soil borings, constituent of concern (COC) concentrations exceeded the applicable New Mexico EMNRD OCD soil standards. Details of the delineation activities are provided in the *Supplemental Site Investigation Report (2015)* (Apex, July 2, 2015 (Figures updated November 24, 2015)).

During December 2018, a *Soil Remediation Plan* (RP) (Apex, December 6, 2018) was prepared. The RP detailed Enterprise's plan to remediate residual petroleum hydrocarbon impact in soil at the Site.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the remediation activities was to remove on-Site soils with COC concentrations exceeding the applicable New Mexico EMNRD OCD closure criteria. Additionally, the objective of the supplemental soil delineation activities was to further evaluate the extent of hydrocarbon impact to soil at the Site.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced 19.15.29 New Mexico Administrative Code (NMAC), which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on the identified siting criteria outlined in the *Soil Remediation Plan* (*Apex*, December 6, 2018), the applicable closure criteria for soils remaining in place at the Site include:

Tier I Closure Criteria for Soils Impacted by a Release		
Constituent[1]	**Method**	**Limit**
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015	100 mg/kg
BTEX[3]	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

[1] – Constituent concentrations are in milligrams per kilogram (mg/kg).
[2] – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).
[3] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

3.0 SOIL REMEDIATION ACTIVITIES

On February 26, 2020, Enterprise initiated activities to facilitate the removal of petroleum hydrocarbon impacted soil remaining onsite. During the remediation and corrective action activities, West States Energy Contractors, Inc., (West States) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The primary excavation measured approximately 113 feet long and 138 feet wide at the maximum extents. The depth of the primary excavation ranged from two feet to 14 feet below grade surface (bgs). A secondary excavation (approximately 25 feet south-southwest of the primary excavation) was also advanced based on prior site characterization data. This secondary excavation measured approximately 40 feet by 21 feet at the maximum extents with a depth of 20 to 22 feet bgs.

The lithology encountered during the remediation activities consisted primarily of up to three feet of unconsolidated silty sand with some clay underlain by fine-grained sandstone. As indicated by previous soil borings at the Site, groundwater was not encountered.

Approximately 10,392 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 130 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation during the 2020 corrective action activities. The executed C-138 solid waste acceptance forms are provided in **Appendix B**.

After sampling was complete, the excavation was partially backfilled with imported fill from the Envirotech landfarm borrow pit and laboratory-confirmed stockpiled overburden soils to alleviate safety concerns. Throughout the course of the remediation activities, Enterprise coordinated with the New Mexico EMNRD OCD and Hilcorp Energy Company (Hilcorp) (adjacent property owner) regarding potential deferment options in areas of substantial risk to Site structures.

Figure 3 depicts approximate soil sample locations and depicts the approximate dimensions of the excavations with respect to the pipelines (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.1 Soil Remediation Sampling Program

Ensolum field screened soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 54 composite samples (S-1 through S-54), from the excavation for laboratory analysis. In addition, eight composite soil samples (SP-1 through SP-8) were collected from stockpiled overburden soils to determine if the material was suitable for reuse as backfill. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) sample area or less per guidelines outlined in Section D of 19.15.29.12 NMAC. Much of the material removed from the excavation was sandstone, but for the purpose of reporting, all samples are referred to as "soil" samples in this document. Hand tools and the excavator bucket were utilized to obtain fresh sample aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix D**.

First Sampling Event
On March 2, 2020, the first sampling event was performed at the Site. Although the New Mexico EMNRD OCD was notified of the sampling event, no representative was present during sampling activities. Composite soil samples S-1 (0' to 9') and S-3 (0' to 9') were collected from the walls of the excavation. Composite soil sample S-2 (9') was collected from the floor of the excavation.

Second Sampling Event
On March 16, 2020, the second sampling event was performed at the Site. The New Mexico EMNRD OCD was notified of the sampling event, and an OCD representative was present during sampling activities. Composite soil samples S-4 (0' to 6'), S-7 (0' to 6'), S-14 (0' to 14'), S-15 (0' to 10'), S-16, (0' to 7'), S-17 (0' to 7'), S-18 (0' to 8'), and S-19 (0' to 9') were collected from the walls of the excavation. Composite soil samples S-5 (6'), S-6 (6'), S-8 (8'), S-9 (9'), S-10 (14'), S-11 (9'), S-12 (10'), and S-13 (10') were collected from the floor of the excavation. The analytical results from composite soil samples S-14, S-15, S-16, and S-19 indicated TPH concentrations exceeding the applicable New Mexico EMNRD OCD closure criteria. Based on this information, Enterprise extended the excavation, and the soils associated with composite samples S-14 and S-15 were removed and transported to the Envirotech landfarm for disposal/remediation. The New Mexico EMNRD OCD verbally approved deferment of the soils associated with S-16 and S-19 because of the proximity of the Transwestern high-pressure pipeline.

Third Sampling Event
On March 24, 2020, the third sampling event was performed at the Site. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-20 (0' to 7'), S-24 (0' to 10'), and S-27 (0' to 10') were collected from the walls of the excavation. Composite soil samples S-21 through S-23 (7'), S-25 (10'), and S-26 (10') were collected from the floor of the excavation. Composite soil samples SP-1 through SP-8 were collected from the stockpiles to demonstrate that a portion of the overburden soils did not exhibit COC impact and that they were suitable for use as backfill.

The analytical results from composite soil samples S-24, S-27, SP-2, and SP-5 indicated TPH concentrations exceeding the applicable New Mexico EMNRD OCD closure criteria. Based on this data, Enterprise extended the excavation and the soils associated with composite soil samples S-20, S-27, SP-2, and SP-5 were transported to the Envirotech landfarm for disposal/remediation. The soils associated with S-20 did not exceed the applicable New Mexico EMNRD OCD closure criteria; however, these soils were removed to obtain access to adjacent contamination. The New Mexico EMNRD OCD verbally approved deferment of the soils associated with S-24 and S-43 due to the proximity of the Transwestern high-pressure pipeline.

Fourth Sampling Event

On March 25, 2020, the fourth sampling event was performed at the Site. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-30 (0' to 22'), S-31 (0' to 18'), S-32 (0' to 18'), and S-33 (0' to 16') were collected from the walls of the excavation. Composite soil samples S-28 (22') and S-29 (20') were collected from the floor of the excavation.

Fifth Sampling Event

On March 30, 2020, the fifth sampling event was performed at the Site. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-34 (0' to 20'), S-35 (0' to 20'), S-36 through S-38 (0' to 10'), and S-39 (0' to 8') were collected from the wall of the excavation. Composite soil samples S-40 through S-42 (10') were collected from the floor of the excavation.

Sixth Sampling Event

On April 6, 2020, the sixth sampling event was performed at the Site. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-43 (0' to 14'), S-45 (0' to 10'), S-46 (0' to 10'), S-47 (0' to 22'), S-48 (7' to 14'), S-49 (0' to 22'), and S-50 (7' to 14') were collected from the walls of the excavation. Composite soil samples S-44 (10') and S-51 through S-54 (14') were collected from the floor of the excavation.

The analytical results from composite soil samples S-43 and S-49 indicated TPH and/or BTEX concentrations exceeding the applicable New Mexico EMNRD OCD closure criteria. However, the New Mexico EMNRD OCD verbally approved deferment of the soils associated with S-43 due to the proximity of a high-pressure pipeline. Due to the proximity to the Hilcorp property boundary and evaporation pond, further excavation to the west was suspended. The New Mexico EMNRD OCD requested further delineation of the soil impact associated with sample S-49. In response, Enterprise coordinated with Hilcorp to obtain access and approval to perform delineation activities on Hilcorp property (see Section 4.0).

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico, under proper chain-of-custody procedures.

3.2 Soil Remediation Laboratory Analytical Methods

The composite soil samples were analyzed for BTEX using United States (U.S.) Environmental Protection Agency (EPA) SW-846 Method 8021 or 8260; TPH GRO/DRO/MRO using U.S. EPA SW-846 Method 8015; and chlorides using U.S. EPA Method 300.0.

A summary of the analytes, sample type, and U.S. EPA or other approved methods is presented in the following table:

Analytes	Sample Type	No. of Samples	Method
BTEX	Soil	62	SW-846 8021/8260
TPH GRO/DRO/MRO	Soil	62	SW-846 8015
Chlorides	Soil	62	Method 300.0

The laboratory analytical results are summarized in **Table 1** (**Appendix E**). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix F**.

3.3 Soil Remediation Data Evaluation

Ensolum compared the benzene, total BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-13, S-16 though S-19, S-21 through S-26, and S-28 through S-54) to the applicable New Mexico EMNRD OCD closure criteria. The soils associated with composite soil samples S-14, S-15, S-20, S-27, SP-2, and SP-5 were removed from the Site, and therefore, are not included in the following discussion. The analytical data from these remediation activities is presented in **Table 1** (**Appendix E**).

- The laboratory analytical results for composite soil samples S-19 and S-49 indicate benzene concentrations of 26 mg/kg and 13 mg/kg, respectively, which exceed the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for composite soil samples S-5 through S-11, S-16, S-36, and S-43 indicate benzene concentrations ranging from 0.038 mg/kg (S-7) to 0.60 mg/kg (S-43), which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other composite samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical results for composite soil samples S-19 and S-49 indicate total BTEX concentrations of 490 mg/kg and 110 mg/kg, respectively, which exceed the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for composite soil samples S-4 through S-11, S-16, S-17, S-21, S-24, S-36, S-43, and S-50 indicate total BTEX concentrations ranging from 0.099 mg/kg (S-5 and S-17) to 40 mg/kg (S-43), which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite samples collected from soils remaining at the Site indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S-16, S-19, S-24, S-43, and S-49 indicate total combined TPH GRO/DRO/MRO concentrations ranging from 140 mg/kg (S-16) to 7,900 mg/kg (S-19), which exceed the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for composite soil samples S-4, S-8, S-9, S-12, S-17, S-47, S-48, S-50, and stockpile samples SP-7 and SP-8, indicate total combined TPH GRO/DRO/MRO concentrations ranging from 9.3 mg/kg (S-47) to 70 mg/kg (SP-7 and SP-8), which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite samples collected from soils remaining at the Site indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for composite soil samples S-7, S-16, S-17, S-18, S-19, S-24, S-30, S-31, S-33, S-35, S-38, S-43, S-46, S-48, S-49, and stockpile soil samples SP-3 through SP-8, indicate chloride concentrations ranging from 60 mg/kg (S-7 and S-30) to 490 mg/kg (S-46), which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other composite samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg.

4.0 SUPPLEMENTAL SOIL DELINEATION

During April 2022, supplemental delineation activities were initiated near the evaporation pond located on the neighboring Hilcorp property to the west of the Site. Prior to drilling, the soil boring location was “daylighted” to a depth of three feet bgs, at which point sandstone was encountered, utilizing a hydro-excavation vacuum truck. The soil boring (SB-1H) was then advanced initially utilizing hollow-stem auger (HSA) and then air-rotary drilling methods (from three feet bgs to termination). **Figure 4** (**Appendix A**) identifies the approximate soil boring location. Regulatory correspondence is provided in **Appendix D**.

4.1 Soil Boring Installation

Soil samples were collected continuously from three feet bgs to the total depth of the boring utilizing five-foot core barrel samplers. Samples and drill cuttings were screened for visual and olfactory evidence of petroleum hydrocarbon impact. A field soil headspace analysis was conducted on each available soil sample interval by placing a representative portion of the sample into a plastic Ziploc® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a PID capable of detecting VOCs. The PID was calibrated utilizing an isobutylene standard prior to use in the field. PID readings of samples measured from the soil borings ranged from zero parts per million by volume (ppmv) to 280 ppmv (SB-1H @ 10.5’-11.5’). The field screening results are presented on the soil boring log included in **Appendix G**.

During the completion of the soil boring, an Ensolum professional documented the subsurface lithology, color, and moisture content. A continuous profile of the soil column encountered from the ground surface to the boring terminus was prepared. Soil samples from the boring location were visually inspected and classified in the field. The lithology observed during the advancement of the soil boring was generally sandstone. Detailed lithologic descriptions are presented on the soil boring log included in **Appendix G**.

Four soil samples were collected for laboratory analysis from the soil boring. Samples were selected for analysis based on one or more of the following criteria:

- The depth interval exhibiting the highest concentration of VOCs based on PID evidence;
- An interval exhibiting visual/olfactory evidence of impairment;
- The capillary fringe zone;
- From a change in lithology; or,
- From the bottom of the boring.

Drill cuttings were transported to the Envirotech landfarm for remediation/disposal. The executed C-138 solid waste acceptance form is provided in **Appendix B**.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for HEAL of Albuquerque, New Mexico, under proper chain-of-custody procedures.

4.2 Soil Boring Laboratory Analytical Methods

The soil samples collected during the supplemental delineation activities on the Hilcorp property were analyzed for TPH GRO/DRO/MRO utilizing U.S. EPA SW-846 Method 8015; BTEX utilizing U.S. EPA SW-846 Method 8021 ; and chloride utilizing U.S. EPA Method 300.0.

A summary of the analytes, sample type, and U.S. EPA or other approved methods is presented in the following table:

Analytes	Sample Type	No. of Samples	Method
BTEX	Soil	4	SW-846 8021
TPH GRO/DRO/MRO	Soil	4	SW-846 8015
Chlorides	Soil	4	Method 300.0

4.3 Soil Boring Data Evaluation

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory PQLs / RLs associated with soil samples collected from SB-1H to the New Mexico EMNRD OCD closure criteria. All soil analytical data collected to date is presented in **Table 1** (**Appendix E**).

- The laboratory analytical result for soil sample SB-1H (4'-5') indicates a benzene concentration of 0.039 mg/kg, which is less than the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other soil samples collected from the boring indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical result for soil sample SB-1H (4'-5') indicates a total BTEX concentration of 0.039 mg/kg, which is less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other soil samples collected from the boring indicate that total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical result for soil sample SB-1H (13.5'-14.5') indicates a total combined TPH GRO/DRO/MRO concentration of 140 mg/kg, respectively, which exceeds the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other soil samples collected from the boring indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for all soil samples collected from the boring indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg.

5.0 FINDINGS

Findings based on remediation and delineation activities that were implemented at the Site in 2020 and 2022 are as follows:

- Sixty-six composite soil samples were collected from the Site. Based on laboratory analytical results, soil remaining in place along the Transwestern pipeline and near the Hilcorp evaporation pond exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria. The soils in the remaining portions of the excavation exhibit COC concentrations below the New Mexico EMNRD OCD closure criteria.

- Approximately 10,392 yd^3 of petroleum hydrocarbon affected soils and 130 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was partially backfilled with imported fill from the Envirotech landfarm borrow pit and laboratory-confirmed stockpiled overburden soils to address safety concerns. Additional imported backfill will likely be required to provide a driving surface.

- The laboratory data, along with a review of historic aerial photography, suggests that a large portion of the identified impact was related to historic pits that were located on the Enterprise and Hilcorp properties. For example, the single exceedance in the soil boring located on the Hilcorp property exhibited TPH DRO and MRO range impact, but not GRO range impact. By contrast, the closest sample on the Enterprise property was almost entirely GRO range impact and no MRO range impact, suggesting that the impact at the two locations is from different sources.

- Based on the information provided herein, Enterprise requests deferment of final remediation and reclamation for the areas identified on **Figure 4** (**Appendix A**) until after the facilities or affected portions of the facilities are decommissioned, to avoid damaging existing structures/appurtenances at the facilities. At that time, Enterprise will work with Hilcorp to perform final remediation and reclamation of the Site. Enterprise estimates approximately 873 yd^3 of petroleum hydrocarbon affected soil associated with historic releases remains in place near the pipeline and the evaporation pond.

6.0 RECOMMENDATION

Ensolum offers the following recommendations based on the available data:

- Pursuant to Paragraph (2) of Subsection C of 19.15.29.12 NMAC Enterprise requests deferment of final remediation, reclamation, and revegetation at the Site to address the soil requirements of Paragraph (1) of Subsection D of 19.15.29.13 NMAC until after both facilities are decommissioned, to avoid damaging existing structures/appurtenances.

7.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

7.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

7.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

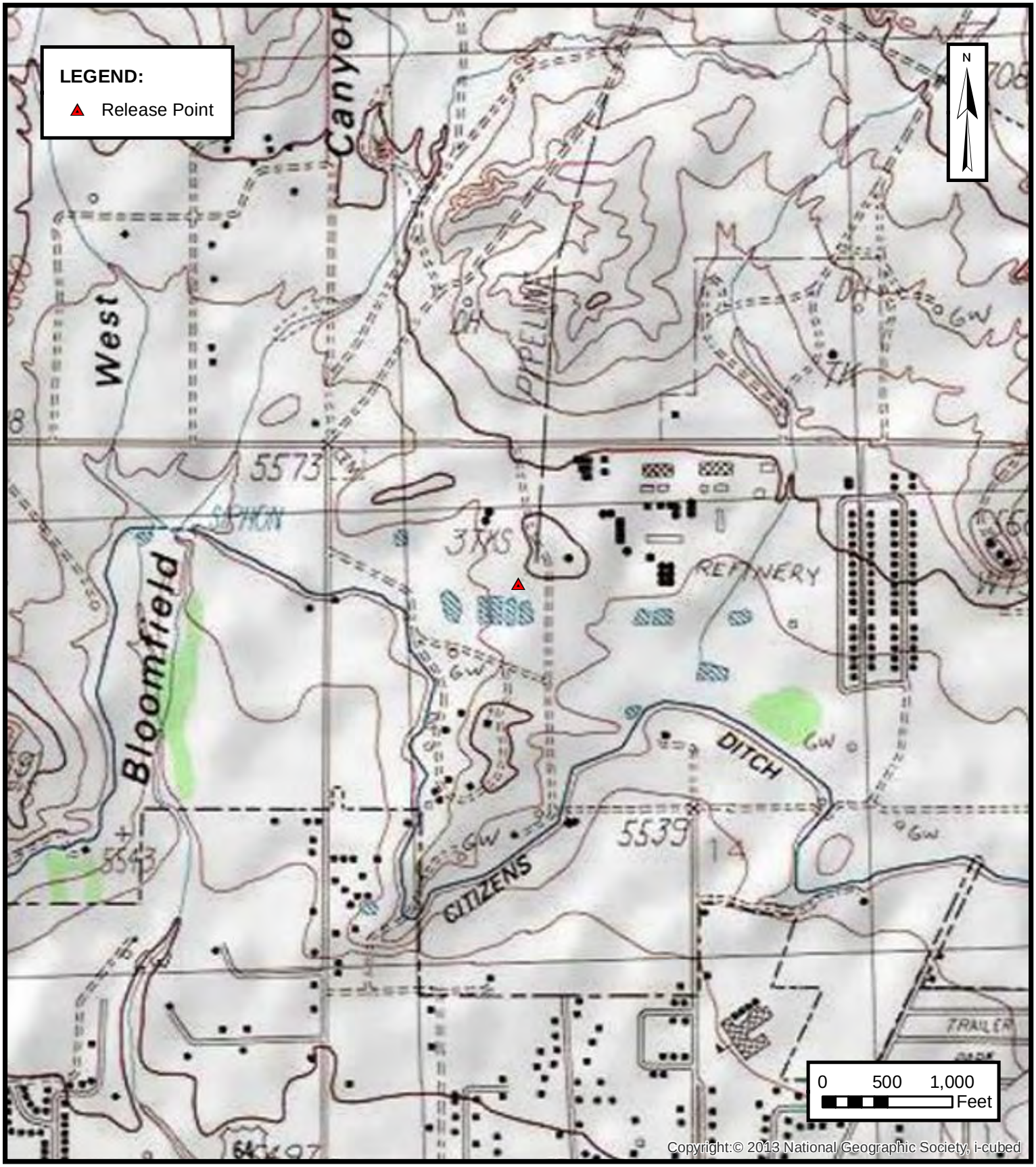
7.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO VENT TANK RELEASE
Unit Letter C, S14 T29N R11W, San Juan County, New Mexico
36.73019° N, 107.96524° W

PROJECT NUMBER: 05A1226012

FIGURE
1

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

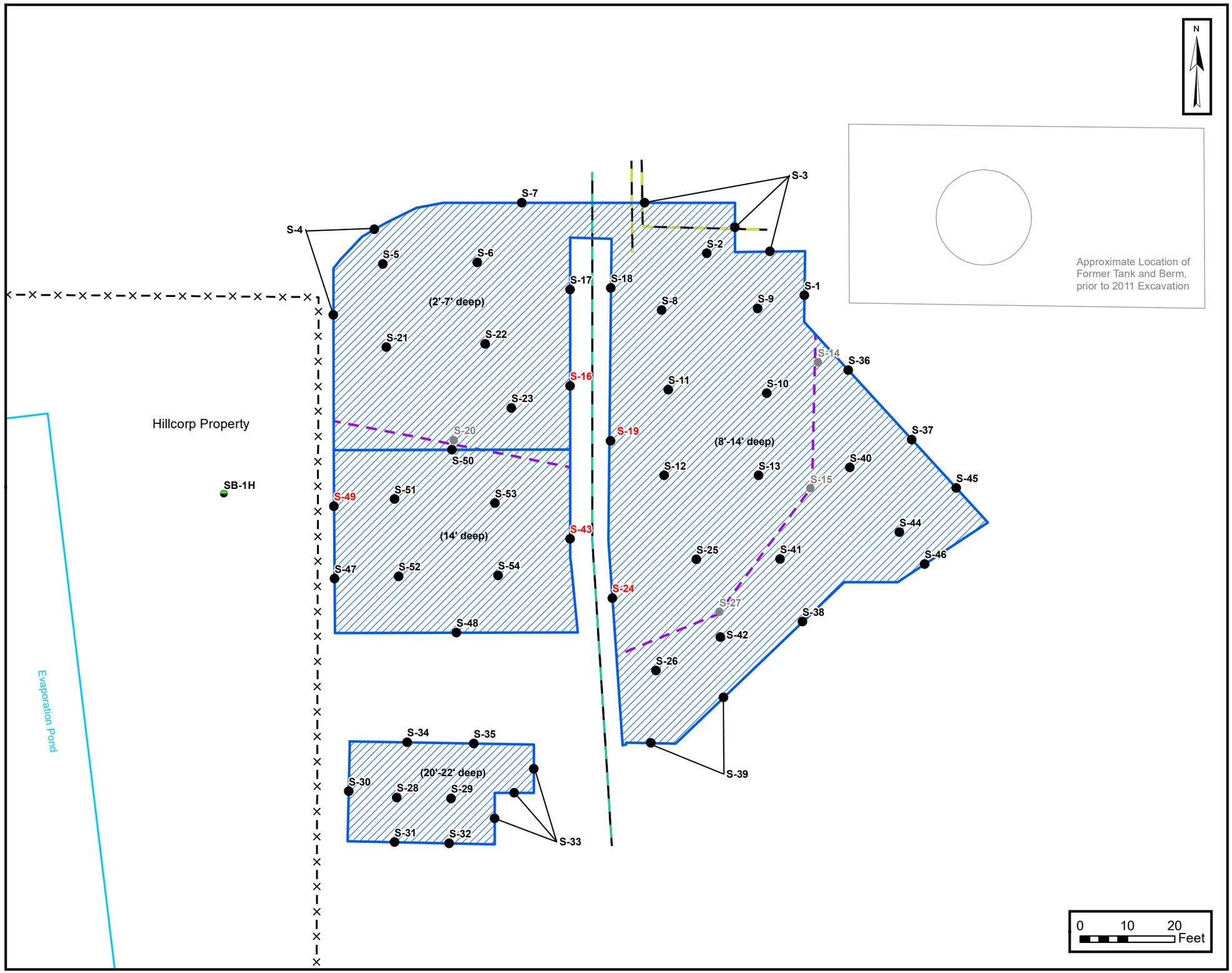
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO VENT TANK RELEASE
Unit Letter C, S14 T29N R11W, San Juan County, New Mexico
36.73019° N, 107.96524° W

PROJECT NUMBER: 05A1226012

FIGURE

2



LEGEND:

- Release Point
- Composite Soil Sample Location
- Composite Soil Sample Removed by Excavation
- Soil Boring Location
- Extent of Excavation
- Fenceline
- Excavation Sidewall (Removed)
- Approximate Pipeline Location
- Approximate Location of Transwestern Pipeline

NOTES:
Concentrations for sample IDs in **red** exceed the applicable NM EMNRD OCD closure criteria. Soil associated with these samples remain in place.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

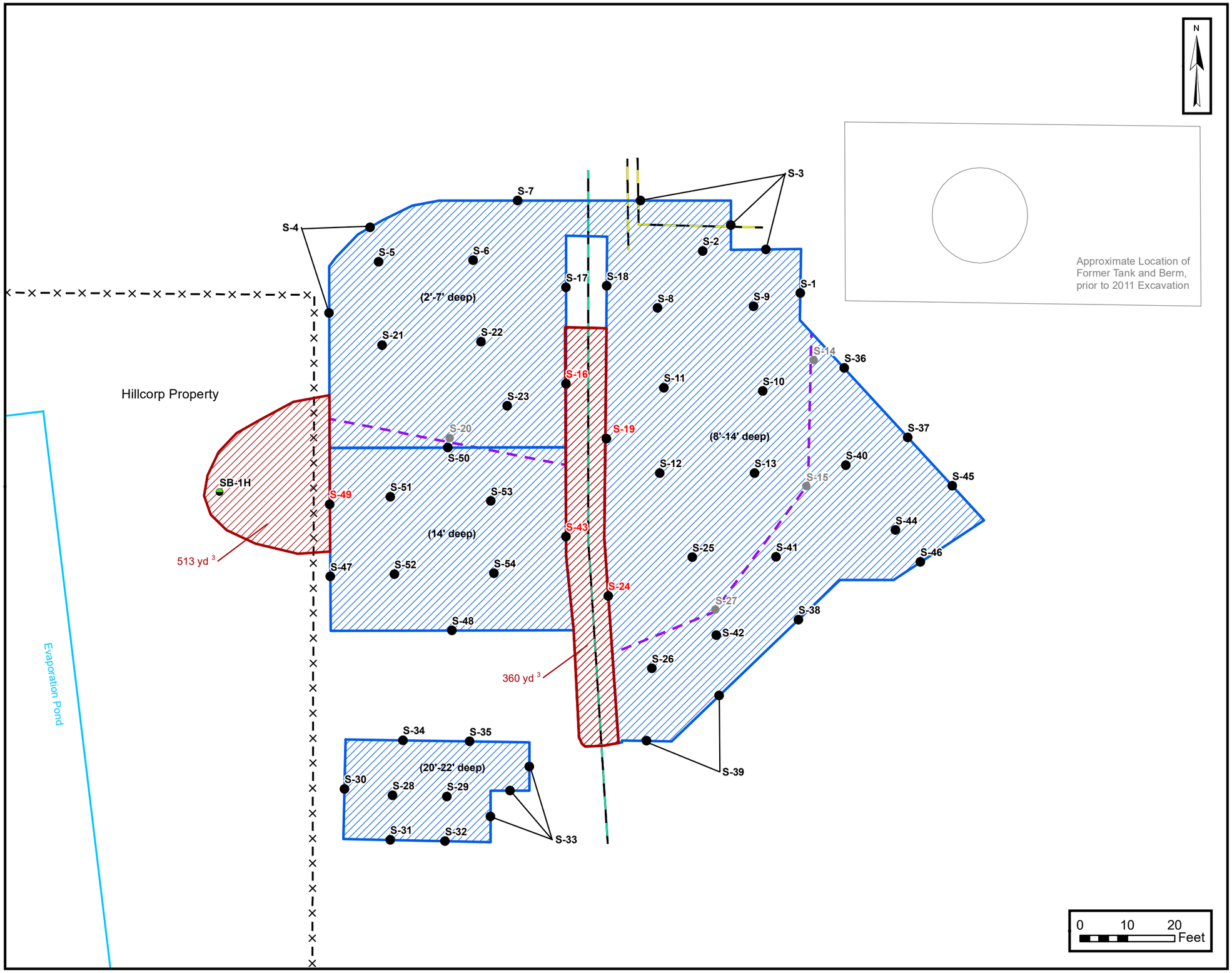
SITE MAP WITH SOIL SAMPLE LOCATIONS

ENTERPRISE FIELD SERVICES, LLC
BLANCO VENT TANK RELEASE

Unit Letter C, S14 T29N R11W, San Juan County, New Mexico
36.73019° N, 107.96524° W

FIGURE
3

PROJECT NUMBER: 05A1226012



LEGEND:

- Release Point
- Composite Soil Sample Location
- Composite Soil Sample Removed by Excavation
- Soil Boring Location
- Extent of Excavation
- Soil Deferment
- Fenceline
- Excavation Sidewall (Removed)
- Approximate Pipeline Location
- Approximate Location of Transwestern Pipeline
- 11 yd ^{3} Estimated Affected Material Remaining in Place

NOTES:
Concentrations for sample IDs in **red** exceed the applicable NM EMNRD OCD closure criteria. Soil associated with these samples remain in place.
yd ^{3} = cubic yards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SOIL DEFERMENT AREA MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO VENT TANK RELEASE

Unit Letter C, S14 T29N R11W, San Juan County, New Mexico
36.73019° N, 107.96524° W

FIGURE
4

PROJECT NUMBER: 05A1226012

ENSOLUM

APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057 - 1092

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

PO: 263160
PayKey: RB21200
PM: Greg Miller

2. Originating Site:
Blanco Vent Tank Release Site

3. Location of Material (Street Address, City, State or ULSTR):
UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Feb 27 - March 27 2020

4. Source and Description of Waste:
Source: Hydrocarbon impacted soil/sludge associated with remediation activities from overflowing of a storage tank.
Description: Hydrocarbon/Condensate impacted soil associated with remediation activities.
Estimated Volume 1000 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 1428/130 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 2-27-2020, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Riley Industrial or West States Energy Contractors or subcontractors.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Envirn Manager DATE: 2/27/2020
SIGNATURE: Greg Crabtree TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057-1092

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

PO: 263160
PayKey: RB21200
PM: Greg Miller

2. Originating Site:
Blanco Vent Tank Release Site

3. Location of Material (Street Address, City, State or ULSTR):
UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

March/April 2020

4. Source and Description of Waste:
Source: Hydrocarbon impacted soil/sludge associated with remediation activities from overflowing of a storage tank.
Description: Hydrocarbon/Condensate impacted soil associated with remediation activities.
Estimated Volume 1000 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 2964 (yd³) bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 2-27-2020, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Riley Industrial or West States Energy Contractors or subcontractors.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 3/28/2020
SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

envirotech

Bill of Lading

MANIFEST # 72926
GENERATOR Enterprise
POINT OF ORIGIN Blanco Plant
TRANSPORTER West States
DATE 5-16-22 JOB # 97057-1125

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII-5	cont Soil	H-28		1			250	8:35	Manuel Contreras
					1					

RESULTS			LANDFARM EMPLOYEE	NOTES
4281	CHLORIDE TEST	1		
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
PASS	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 72926

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5-16-22 TIME 8:35

Attach test strip here

CUSTOMER ENTERPRISE

SITE BLANCO STORAGE

DRIVER + MANUEL CONTRERAS

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 8:35 Time completed 8:45

PASS YES ✓ NO _____

SAMPLER/ANALYST _____

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

ENSOLUM

APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Site Characterization Report and Deferment Request
Enterprise Field Services, LLC
Blanco Vent Tank Release
Ensolum Project No. 05A1226012

ENSOLUM

Photograph 1 Photograph Description: View of the in-process excavation activities.	
Photograph 2 Photograph Description: View of the in-process excavation activities.	
Photograph 3 Photograph Description: View of the in-process excavation activities.	

SITE PHOTOGRAPHS

Site Characterization Report and Deferment Request
Enterprise Field Services, LLC
Blanco Vent Tank Release
Ensolum Project No. 05A1226012

ENSOLUM

Photograph 4 Photograph Description: View of the soil adjacent to the Transwestern pipeline.	
Photograph 5 Photograph Description: View of the soil adjacent to the Transwestern pipeline.	
Photograph 6 Photograph Description: View of the in-process excavation activities.	

SITE PHOTOGRAPHS

Site Characterization Report and Deferment Request
Enterprise Field Services, LLC
Blanco Vent Tank Release
Ensolum Project No. 05A1226012

ENSOLUM

Photograph 7 Photograph Description: View of the site after partial backfill.	
Photograph 8 Photograph Description: View of the site after partial backfill.	
Photograph 9 Photograph Description: View of the site after partial backfill.	

SITE PHOTOGRAPHS

Site Characterization Report and Deferment Request
Enterprise Field Services, LLC
Blanco Vent Tank Release
Ensolum Project No. 05A1226012

ENSOLUM

Photograph 10 Photograph Description: View of the site after partial backfill.	
Photograph 11 Photograph Description: View of the drilling activities in 2022.	

ENSOLUM

APPENDIX D

Regulatory Correspondence

From:	Smith, Cory, EMNRD
To:	Long, Thomas
Cc:	Miller, Greg; Stone, Brian; Kyle Summers
Subject:	RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405
Date:	Tuesday, April 14, 2020 10:57:12 AM

Tom,

As discussed I am ok with moving forward with deferment for the impacts along the pipeline corridor.

For Impacts dealing with S-49 Enterprise needs to delineate the release fully to request deferment. With the edge of the property line close and the proximity to the evaporation pond I am fine with ceasing excavation until we get further delineation information.

Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, April 13, 2020 9:29 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: [EXT] RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

Please see the attached site sketch, site map, summary table and photos of the Blanco Vent Tank excavation. Enterprise requests an onsite meeting on April 15, 2020 at 10:30 a.m. with NMOCD to evaluate remediation options or deferment options for soil currently in place that exceeds NMOCD Tier I soil remediation standards. Specifically, the areas where S-49, S-16- S-19, S-24 and S-43 are located. Please let me know if you are available for this meeting or if there is another time that is convenient. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company

614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Tuesday, April 7, 2020 8:21 AM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

There was a sampling event yesterday at the Howell M#1 as well. The miscommunication was for the Blanco Vent Tank sampling event yesterday. Thank you for your understanding. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Monday, April 6, 2020 4:37 PM
To: Long, Thomas <tjlong@eprod.com>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Tom,

I did receive Chad phone call however I was under the impression that was for the sampling event at

the Howell M #1

Continue forward with sampling.

Thanks.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, April 6, 2020 4:25 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

This email is a follow up to our phone conversation earlier today. Enterprise collected soil samples for laboratory analysis today, however there was a miscommunication on the sampling times and prior notification was not sent to NMOCD. Chad D'Aponti with Ensolum did call to verify if you were coming to witness the sampling. I apologize for the improper notification practice. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
Sent: Tuesday, March 31, 2020 8:25 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan

County, NM; 36.729918, -107.965405

Cory,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at the Blanco Vent Tank remediation site tomorrow, April 1, 2020 at 9:00 a.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, March 27, 2020 11:42 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

This email is to notify you that Enterprise is postponing the soil sampling today. Enterprise will be collecting soil samples for laboratory analysis at the Blanco Vent Tank remediation site Monday, March 30, 2020 and 10:00 a.m. instead. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, March 25, 2020 2:13 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at the Blanco Vent Tank remediation site Friday, March 27, 2020 and 10:00 a.m. If we are ready earlier than Friday, Enterprise would like to possibly sample tomorrow. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
Sent: Tuesday, March 24, 2020 12:00 PM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at the Blanco Vent Tank remediation site tomorrow, March 24, 2020 at 10:00 a.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401

505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Wednesday, March 18, 2020 7:40 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Tom,

Thank you for the update Tom, proceed as described below let me know if anything changes.

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, March 17, 2020 4:56 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: [EXT] FW: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

Please find the attached site sketch and lab reports for the Blanco Vent Tank Release site. All sample results are below Tier I NMOCD remediation standards except S-14 and S-15. Enterprise will excavate more in these areas and resample. Enterprise will backfill the other areas of the excavation with clean imported fill material. The activities will be executed as needed due to the existing work conditions associated with the corona virus outbreak. I will keep you informed as to when activities will resume. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, March 13, 2020 10:22 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Subject: FW: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Monday March, 16, 2020 at 10:00 a.m. Enterprise would NMOCD to conduct a site visit, if possible during this sampling event, or shortly thereafter to assess the site conditions prior to backfilling portions of the excavation. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Monday, March 2, 2020 7:49 AM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>
Subject: RE: Blanco Vent Tank Release Site - 3RP-438 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

Oops sorry, it is 3RP-438.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.

Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Monday, March 2, 2020 7:46 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: RE: Blanco Vent Tank Release Site - 3RP-348 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Tom,

Are you sure 3RP-348 is correct I have that as the Williams Zachry #18E

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, February 28, 2020 7:11 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Blanco Vent Tank Release Site - 3RP-348 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Monday, March 2, 2020 at 11:00 a.m. In addition, Enterprise requests a variance from the 200 square foot sampling interval to a 400 square foot sampling interval for this project. Please acknowledge acceptance of the variance request. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company

614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
Sent: Wednesday, February 26, 2020 1:02 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Drewry, Scott <sdrewry@eprod.com>
Subject: Blanco Vent Tank Release Site - 3RP-348 - UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405

Cory/Jim,

This email is to inform you that Enterprise will begin remediation activities at the Blanco Vent Tank Release Site (3RP-348) tomorrow February 27, 2020. These remediation activities are in accordance with the previous approved Soil Remediation Plan. The release site is located UL C Section 14 T 29 N R 11W, San Juan County, NM; 36.729918, -107.965405. I will keep you informed as to when we will be collecting soil samples for laboratory analysis. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Kyle Summers
To: Ranee Deechilly
Subject: FW: [EXTERNAL] Blanco Vent Tank - Soil Boring Installation - UL C Section 14 T 29 N R 11W; 36.729918, -107.965405; Incident #NVF19011530473
Date: Monday, April 25, 2022 9:17:15 AM
Attachments: image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Monday, April 11, 2022 9:58 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Blanco Vent Tank - Soil Boring Installation - UL C Section 14 T 29 N R 11W; 36.729918, -107.965405; Incident #NVF19011530473

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please collect any and all sample per 19.15.29 NMAC. For whatever reason, if the work and/or sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the final closure report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposal and/or final closure reports.

Correspondence required to be included in reports may include, but not limited to, time extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests.

Thanks again.

Regards

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, April 11, 2022 8:55 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: [EXTERNAL] Blanco Vent Tank - Soil Boring Installation - UL C Section 14 T 29 N R 11W; 36.729918, -107.965405; Incident #NVF19011530473

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This email is a notification and follow up to our phone conversation earlier. Enterprise will be installing soil borings a the Blanco Vent Tank release site today beginning at 10:00 a.m. A total of three soil borings may be installed. Soil samples will be collected from each soil boring. Please see the attached map for the proposed locations for the soil borings. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

ENSOLUM

APPENDIX E

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Blanco Vent Tank Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy Mineral & Natural Resources Department Oil Conservation Division Closure Criteria				10	NE	NE	NE	50	NE	NE	NE	100	600
Excavation Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-14	3.16.20	C	0 to 14	0.73	7.0	2.4	25	35	450	30	<49	**480**	<60
S-15	3.16.20	C	0 to 10	0.44	4.4	2.0	23	30	290	79	110	**480**	86
S-20	3.24.20	C	0 to 7	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<9.7	<49	ND	<61
S-27	3.24.20	C	0 to 10	<0.092	0.31	0.38	7.6	8.3	570	28	61	**660**	110
Stockpiled Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
SP-2	3.24.20	C	Stockpile	<0.025	<0.049	<0.049	<0.098	ND	<4.9	31	280	**310**	100
SP-5	3.24.20	C	Stockpile	<0.025	<0.050	<0.050	<0.099	ND	<5.0	150	410	**560**	210
Composite Stockpiled Soil Samples (2022)													
SP-1	3.24.20	C	Stockpile	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.8	<49	ND	<60
SP-3	3.24.20	C	Stockpile	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<8.9	<44	ND	260
SP-4	3.24.20	C	Stockpile	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.9	<50	ND	220
SP-6	3.24.20	C	Stockpile	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.9	<49	ND	250
SP-7	3.24.20	C	Stockpile	<0.025	<0.049	<0.049	<0.099	ND	<4.9	15	55	70	150
SP-8	3.24.20	C	Stockpile	<0.025	<0.050	<0.050	<0.099	ND	<5.0	16	54	70	220
Excavation Composite Soil Samples (2020)													
S-1	3.02.20	C	0 to 9	<0.12	<0.23	<0.23	<0.47	ND	<23	<9.5	<47	ND	<60
S-2	3.02.20	C	9	<0.11	<0.23	<0.23	<0.46	ND	<23	<9.6	<48	ND	<60
S-3	3.02.20	C	0 to 9	<0.11	<0.22	<0.22	<0.45	ND	<22	<9.5	<48	ND	<60
S-4	3.16.20	C	0 to 6	<0.022	<0.044	<0.044	0.28	0.28	14	21	<48	35	<60
S-5	3.16.20	C	6	0.047	0.052	<0.039	<0.079	0.099	<3.9	<9.9	<49	ND	<60
S-6	3.16.20	C	6	0.045	0.067	<0.043	<0.086	0.11	<4.3	<9.7	<48	ND	<60
S-7	3.16.20	C	0 to 6	0.038	0.21	<0.041	0.20	0.45	<4.1	<9.6	<48	ND	60
S-8	3.16.20	C	8	0.058	0.34	0.068	0.79	1.3	14	<9.0	<45	14	<60
S-9	3.16.20	C	9	0.15	0.082	0.19	2.1	2.5	21	14	<46	35	<60
S-10	3.16.20	C	14	0.047	<0.040	<0.040	0.081	0.13	<4.0	<9.3	<47	ND	<60
S-11	3.16.20	C	9	0.17	<0.039	0.064	0.088	0.32	<3.9	<9.6	<48	ND	<60
S-12	3.16.20	C	10	<0.093	<0.19	<0.19	<0.37	ND	<19	64	<43	64	<60
S-13	3.16.20	C	10	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<9.5	<48	ND	<59

ENSOLUM

TABLE 1
Blanco Vent Tank Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy Mineral & Natural Resources Department Oil Conservation Division Closure Criteria				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
S-16	3.16.20	C	0 to 7	0.36	0.45	0.42	4.6	5.8	59	27	58	**140**	110
S-17	3.16.20	C	0 to 7	<0.024	<0.048	<0.048	0.099	0.099	14	<9.5	<47	14	200
S-18	3.16.20	C	0 to 8	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.6	<48	ND	62
S-19	3.16.20	C	0 to 9	**26**	170	24	270	**490**	7,300	360	230	**7,900**	74
S-21	3.24.20	C	7	<0.024	<0.048	<0.048	0.12	0.12	<4.8	<9.6	<48	ND	<60
S-22	3.24.20	C	7	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.1	<46	ND	<60
S-23	3.24.20	C	7	<0.025	<0.051	<0.051	<0.10	ND	<5.1	<9.0	<45	ND	<59
S-24	3.24.20	C	0 to 10	<0.10	0.57	0.52	6.6	7.7	270	46	92	**410**	62
S-25	3.24.20	C	10	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.9	<50	ND	<60
S-26	3.24.20	C	10	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.9	<49	ND	<60
S-28	3.25.20	C	22	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.0	<45	ND	<60
S-29	3.25.20	C	20	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.3	<47	ND	<60
S-30	3.25.20	C	0 to 22	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.6	<48	ND	60
S-31	3.25.20	C	0 to 18	<0.026	<0.053	<0.053	<0.11	ND	<5.3	<9.4	<47	ND	69
S-32	3.25.20	C	0 to 18	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.7	<48	ND	<60
S-33	3.25.20	C	0 to 16	<0.022	<0.043	<0.043	<0.087	ND	<4.3	<9.4	<47	ND	91
S-34	3.30.20	C	0 to 20	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.7	<49	ND	<60
S-35	3.30.20	C	0 to 20	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.8	<49	ND	120
S-36	3.30.20	C	0 to 10	0.026	0.081	<0.040	0.24	0.35	<4.0	<9.3	<47	ND	<60
S-37	3.30.20	C	0 to 10	<0.022	<0.044	<0.044	<0.088	ND	<4.4	<9.8	<49	ND	<60
S-38	3.30.20	C	0 to 10	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.6	<48	ND	260
S-39	3.30.20	C	0 to 8	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.3	<47	ND	<60
S-40	3.30.20	C	10	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.4	<47	ND	<60
S-41	3.30.20	C	10	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<9.0	<45	ND	<60
S-42	3.30.20	C	10	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<8.9	<45	ND	<60
S-43	4.06.20	C	0 to 14	0.60	<0.22	3.9	35	40	1,000	140	140	**1,300**	110
S-44	4.06.20	C	10	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<9.9	<49	ND	<60

ENSOLUM

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SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy Mineral & Natural Resources Department Oil Conservation Division Closure Criteria				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
S-45	4.06.20	C	0 to 10	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.4	<47	ND	<60
S-46	4.06.20	C	0 to 10	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.9	<50	ND	490
S-47	4.06.20	C	0 to 22	<0.10	<0.21	<0.21	<0.41	ND	<21	9.3	<46	9.3	<60
S-48	4.06.20	C	7 to 14	<0.024	<0.048	<0.048	<0.095	ND	<4.8	21	<50	21	72
S-49	4.06.20	C	0 to 22	**13**	6.4	9.4	78	**110**	3,700	95	<50	**3,800**	77
S-50	4.06.20	C	7 to 14	<0.024	<0.049	<0.049	0.31	0.31	12	<9.6	<48	12	<60
S-51	4.06.20	C	14	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.0	<45	ND	<60
S-52	4.06.20	C	14	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.4	<47	ND	<60
S-53	4.06.20	C	14	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.4	<47	ND	<60
S-54	4.06.20	C	14	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.6	<48	ND	<60
Soil Boring Soil Samples (2022)													
SB-1H	4.11.22	G	4 to 5	0.039	<0.048	<0.048	<0.095	0.039	<4.8	<9.4	<47	ND	<60
	4.11.22	G	10.5 to 11.5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.9	<50	ND	<60
	4.11.22	G	13.5 to 14.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	42	100	**140**	<60
	4.11.22	G	21.5 to 22	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.7	<49	ND	<60

*Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria*

[1] = Total combined concentrations are rounded to two (2) significant figures

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NA = Not Analyzed

NE = Not Established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 05, 2020

Kyle Summers

ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Blanco Vent OrderNo.: 2003044

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/3/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003044**
Date Reported: **3/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: Blanco Vent
Collection Date: 3/2/2020 11:00:00 AM
Lab ID: 2003044-001 **Matrix:** SOIL **Received Date:** 3/3/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/3/2020 11:35:12 AM	50836
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/3/2020 9:55:36 AM	50823
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/3/2020 9:55:36 AM	50823
Surr: DNOP	111	55.1-146		%Rec	1	3/3/2020 9:55:36 AM	50823
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/3/2020 9:22:25 AM	G66977
Surr: BFB	82.8	66.6-105		%Rec	5	3/3/2020 9:22:25 AM	G66977
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	3/3/2020 9:22:25 AM	B66977
Toluene	ND	0.23		mg/Kg	5	3/3/2020 9:22:25 AM	B66977
Ethylbenzene	ND	0.23		mg/Kg	5	3/3/2020 9:22:25 AM	B66977
Xylenes, Total	ND	0.47		mg/Kg	5	3/3/2020 9:22:25 AM	B66977
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	5	3/3/2020 9:22:25 AM	B66977

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003044**
Date Reported: **3/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-2
Project: Blanco Vent
Collection Date: 3/2/2020 11:05:00 AM
Lab ID: 2003044-002 **Matrix:** SOIL **Received Date:** 3/3/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/3/2020 11:47:33 AM	50836
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/3/2020 10:11:18 AM	50823
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/3/2020 10:11:18 AM	50823
Surr: DNOP	111	55.1-146		%Rec	1	3/3/2020 10:11:18 AM	50823
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/3/2020 9:45:58 AM	G66977
Surr: BFB	81.3	66.6-105		%Rec	5	3/3/2020 9:45:58 AM	G66977
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	3/3/2020 9:45:58 AM	B66977
Toluene	ND	0.23		mg/Kg	5	3/3/2020 9:45:58 AM	B66977
Ethylbenzene	ND	0.23		mg/Kg	5	3/3/2020 9:45:58 AM	B66977
Xylenes, Total	ND	0.46		mg/Kg	5	3/3/2020 9:45:58 AM	B66977
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	5	3/3/2020 9:45:58 AM	B66977

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003044**
Date Reported: **3/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Blanco Vent
Collection Date: 3/2/2020 11:10:00 AM
Lab ID: 2003044-003 **Matrix:** SOIL **Received Date:** 3/3/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/3/2020 11:59:54 AM	50836
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/3/2020 10:20:19 AM	50823
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/3/2020 10:20:19 AM	50823
Surr: DNOP	111	55.1-146		%Rec	1	3/3/2020 10:20:19 AM	50823
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	3/3/2020 10:09:28 AM	G66977
Surr: BFB	80.1	66.6-105		%Rec	5	3/3/2020 10:09:28 AM	G66977
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	3/3/2020 10:09:28 AM	B66977
Toluene	ND	0.22		mg/Kg	5	3/3/2020 10:09:28 AM	B66977
Ethylbenzene	ND	0.22		mg/Kg	5	3/3/2020 10:09:28 AM	B66977
Xylenes, Total	ND	0.45		mg/Kg	5	3/3/2020 10:09:28 AM	B66977
Surr: 4-Bromofluorobenzene	85.9	80-120		%Rec	5	3/3/2020 10:09:28 AM	B66977

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003044**

05-Mar-20

Client: ENSOLUM

Project: Blanco Vent

Sample ID: **MB-50836**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **50836**	RunNo: **66981**
Prep Date: **3/3/2020**	Analysis Date: **3/3/2020**	SeqNo: **2305691** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-50836**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **50836**	RunNo: **66981**
Prep Date: **3/3/2020**	Analysis Date: **3/3/2020**	SeqNo: **2305692** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003044**
05-Mar-20

Client: ENSOLUM
Project: Blanco Vent

Sample ID: **MB-50823** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **50823** RunNo: **66967**
Prep Date: **3/3/2020** Analysis Date: **3/3/2020** SeqNo: **2304322** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.5	55.1	146			

Sample ID: **LCS-50823** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **50823** RunNo: **66967**
Prep Date: **3/3/2020** Analysis Date: **3/3/2020** SeqNo: **2304323** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.3	70	130			
Surr: DNOP	4.3		5.000		86.4	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003044**

05-Mar-20

Client: ENSOLUM

Project: Blanco Vent

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G66977**	RunNo: **66977**
Prep Date:	Analysis Date: **3/3/2020**	SeqNo: **2304991** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		84.7	66.6	105			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G66977**	RunNo: **66977**
Prep Date:	Analysis Date: **3/3/2020**	SeqNo: **2304992** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	80	120			
Surr: BFB	930		1000		92.7	66.6	105			

Sample ID: **mb-50825**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **50825**	RunNo: **67005**
Prep Date: **3/3/2020**	Analysis Date: **3/4/2020**	SeqNo: **2306649** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	820		1000		81.7	66.6	105			

Sample ID: **lcs-50825**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **50825**	RunNo: **67005**
Prep Date: **3/3/2020**	Analysis Date: **3/4/2020**	SeqNo: **2306650** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.4	66.6	105			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003044**

05-Mar-20

Client: ENSOLUM

Project: Blanco Vent

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B66977**	RunNo: **66977**
Prep Date:	Analysis Date: **3/3/2020**	SeqNo: **2305028** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B66977**	RunNo: **66977**
Prep Date:	Analysis Date: **3/3/2020**	SeqNo: **2305029** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.3	80	120			

Sample ID: **mb-50825**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **50825**	RunNo: **67005**
Prep Date: **3/3/2020**	Analysis Date: **3/4/2020**	SeqNo: **2306692** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	80	120			

Sample ID: **LCS-50825**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **50825**	RunNo: **67005**
Prep Date: **3/3/2020**	Analysis Date: **3/4/2020**	SeqNo: **2306693** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 2003044 RcptNo: 1

Received By: Anne Thorne 3/3/2020 8:30:00 AM

Completed By: Anne Thorne 3/3/2020 8:45:54 AM

Reviewed By: DAD 3/3/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: AT 03/03/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: Custody Seals intact on sal Jars/AT 03/03/20

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suite A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 100%
☐ Standard ☒ Rush 3-3-20

Project Name: Blanco Vent

Project #: 05A1226012

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.7 +0.2 = 1.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
				~~3/3/20~~ MK		Analysis Request																
3/2/20	1100	S	S-1	1 4oz Jar	Cool	001	X		X					X								
3/2/20	1105	S	S-2	1	Cool	002	X		X					X								
3/2/20	1110	S	S-3	1	cool	003	X		X					X								

Date	Time	Relinquished by:	Received by:	Date	Time
3/3/20	1302			3/2/20	1302
3/2/20	1749			03/03/20	0830

Remarks: Bill to Ensolum

Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 18, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Blanco Vent Tank OrderNo.: 2003740

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/17/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: Blanco Vent Tank
Collection Date: 3/16/2020 10:00:00 AM
Lab ID: 2003740-001 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 11:18:32 AM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	21	9.7		mg/Kg	1	3/17/2020 10:45:19 AM	51144
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2020 10:45:19 AM	51144
Surr: DNOP	92.6	55.1-146		%Rec	1	3/17/2020 10:45:19 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	14	4.4		mg/Kg	1	3/17/2020 8:22:42 AM	G67350
Surr: BFB	125	66.6-105	S	%Rec	1	3/17/2020 8:22:42 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/17/2020 8:22:42 AM	B67350
Toluene	ND	0.044		mg/Kg	1	3/17/2020 8:22:42 AM	B67350
Ethylbenzene	ND	0.044		mg/Kg	1	3/17/2020 8:22:42 AM	B67350
Xylenes, Total	0.28	0.087		mg/Kg	1	3/17/2020 8:22:42 AM	B67350
Surr: 4-Bromofluorobenzene	87.6	80-120		%Rec	1	3/17/2020 8:22:42 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Blanco Vent Tank
Collection Date: 3/16/2020 10:05:00 AM
Lab ID: 2003740-002 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 11:30:53 AM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/17/2020 11:09:38 AM	51144
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2020 11:09:38 AM	51144
Surr: DNOP	89.4	55.1-146		%Rec	1	3/17/2020 11:09:38 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/17/2020 8:46:06 AM	G67350
Surr: BFB	73.2	66.6-105		%Rec	1	3/17/2020 8:46:06 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.047	0.020		mg/Kg	1	3/17/2020 8:46:06 AM	B67350
Toluene	0.052	0.039		mg/Kg	1	3/17/2020 8:46:06 AM	B67350
Ethylbenzene	ND	0.039		mg/Kg	1	3/17/2020 8:46:06 AM	B67350
Xylenes, Total	ND	0.079		mg/Kg	1	3/17/2020 8:46:06 AM	B67350
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	3/17/2020 8:46:06 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:10:00 AM
Lab ID: 2003740-003 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 11:43:14 AM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/17/2020 11:33:52 AM	51144
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2020 11:33:52 AM	51144
Surr: DNOP	92.9	55.1-146		%Rec	1	3/17/2020 11:33:52 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	3/17/2020 9:09:42 AM	G67350
Surr: BFB	71.6	66.6-105		%Rec	1	3/17/2020 9:09:42 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.045	0.022		mg/Kg	1	3/17/2020 9:09:42 AM	B67350
Toluene	0.067	0.043		mg/Kg	1	3/17/2020 9:09:42 AM	B67350
Ethylbenzene	ND	0.043		mg/Kg	1	3/17/2020 9:09:42 AM	B67350
Xylenes, Total	ND	0.086		mg/Kg	1	3/17/2020 9:09:42 AM	B67350
Surr: 4-Bromofluorobenzene	85.4	80-120		%Rec	1	3/17/2020 9:09:42 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-7
Project: Blanco Vent Tank
Collection Date: 3/16/2020 10:15:00 AM
Lab ID: 2003740-004 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	60	60		mg/Kg	20	3/17/2020 11:55:36 AM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2020 11:58:20 AM	51144
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2020 11:58:20 AM	51144
Surr: DNOP	88.7	55.1-146		%Rec	1	3/17/2020 11:58:20 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/17/2020 9:33:17 AM	G67350
Surr: BFB	70.7	66.6-105		%Rec	1	3/17/2020 9:33:17 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.038	0.020		mg/Kg	1	3/17/2020 9:33:17 AM	B67350
Toluene	0.21	0.041		mg/Kg	1	3/17/2020 9:33:17 AM	B67350
Ethylbenzene	ND	0.041		mg/Kg	1	3/17/2020 9:33:17 AM	B67350
Xylenes, Total	0.20	0.082		mg/Kg	1	3/17/2020 9:33:17 AM	B67350
Surr: 4-Bromofluorobenzene	86.6	80-120		%Rec	1	3/17/2020 9:33:17 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-8
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:20:00 AM
Lab ID: 2003740-005 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 12:07:55 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/17/2020 12:22:43 PM	51144
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/17/2020 12:22:43 PM	51144
Surr: DNOP	96.1	55.1-146		%Rec	1	3/17/2020 12:22:43 PM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	14	4.0		mg/Kg	1	3/17/2020 9:56:54 AM	G67350
Surr: BFB	94.9	66.6-105		%Rec	1	3/17/2020 9:56:54 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.058	0.020		mg/Kg	1	3/17/2020 9:56:54 AM	B67350
Toluene	0.34	0.040		mg/Kg	1	3/17/2020 9:56:54 AM	B67350
Ethylbenzene	0.068	0.040		mg/Kg	1	3/17/2020 9:56:54 AM	B67350
Xylenes, Total	0.79	0.080		mg/Kg	1	3/17/2020 9:56:54 AM	B67350
Surr: 4-Bromofluorobenzene	90.1	80-120		%Rec	1	3/17/2020 9:56:54 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-9
Project: Blanco Vent Tank
Collection Date: 3/16/2020 10:25:00 AM
Lab ID: 2003740-006 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 12:20:17 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	14	9.1		mg/Kg	1	3/17/2020 10:58:56 AM	51144
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/17/2020 10:58:56 AM	51144
Surr: DNOP	82.5	55.1-146		%Rec	1	3/17/2020 10:58:56 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	21	4.5		mg/Kg	1	3/17/2020 10:20:31 AM	G67350
Surr: BFB	102	66.6-105		%Rec	1	3/17/2020 10:20:31 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.15	0.023		mg/Kg	1	3/17/2020 10:20:31 AM	B67350
Toluene	0.082	0.045		mg/Kg	1	3/17/2020 10:20:31 AM	B67350
Ethylbenzene	0.19	0.045		mg/Kg	1	3/17/2020 10:20:31 AM	B67350
Xylenes, Total	2.1	0.090		mg/Kg	1	3/17/2020 10:20:31 AM	B67350
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	3/17/2020 10:20:31 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-10
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:30:00 AM
Lab ID: 2003740-007 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 12:32:37 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/17/2020 11:21:01 AM	51144
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/17/2020 11:21:01 AM	51144
Surr: DNOP	84.6	55.1-146		%Rec	1	3/17/2020 11:21:01 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	3/17/2020 10:44:06 AM	G67350
Surr: BFB	72.8	66.6-105		%Rec	1	3/17/2020 10:44:06 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.047	0.020		mg/Kg	1	3/17/2020 10:44:06 AM	B67350
Toluene	ND	0.040		mg/Kg	1	3/17/2020 10:44:06 AM	B67350
Ethylbenzene	ND	0.040		mg/Kg	1	3/17/2020 10:44:06 AM	B67350
Xylenes, Total	0.081	0.080		mg/Kg	1	3/17/2020 10:44:06 AM	B67350
Surr: 4-Bromofluorobenzene	87.8	80-120		%Rec	1	3/17/2020 10:44:06 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-11
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:35:00 AM
Lab ID: 2003740-008 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 12:44:58 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/17/2020 11:43:09 AM	51144
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2020 11:43:09 AM	51144
Surr: DNOP	83.1	55.1-146		%Rec	1	3/17/2020 11:43:09 AM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/17/2020 11:07:45 AM	G67350
Surr: BFB	81.8	66.6-105		%Rec	1	3/17/2020 11:07:45 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.17	0.020		mg/Kg	1	3/17/2020 11:07:45 AM	B67350
Toluene	ND	0.039		mg/Kg	1	3/17/2020 11:07:45 AM	B67350
Ethylbenzene	0.064	0.039		mg/Kg	1	3/17/2020 11:07:45 AM	B67350
Xylenes, Total	0.088	0.079		mg/Kg	1	3/17/2020 11:07:45 AM	B67350
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	3/17/2020 11:07:45 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-12
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:40:00 AM
Lab ID: 2003740-009 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 1:22:00 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	64	8.5		mg/Kg	1	3/17/2020 12:05:15 PM	51144
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/17/2020 12:05:15 PM	51144
Surr: DNOP	84.1	55.1-146		%Rec	1	3/17/2020 12:05:15 PM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	3/17/2020 11:31:23 AM	G67350
Surr: BFB	73.7	66.6-105		%Rec	5	3/17/2020 11:31:23 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.093		mg/Kg	5	3/17/2020 11:31:23 AM	B67350
Toluene	ND	0.19		mg/Kg	5	3/17/2020 11:31:23 AM	B67350
Ethylbenzene	ND	0.19		mg/Kg	5	3/17/2020 11:31:23 AM	B67350
Xylenes, Total	ND	0.37		mg/Kg	5	3/17/2020 11:31:23 AM	B67350
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	5	3/17/2020 11:31:23 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-13
Project: Blanco Vent Tank
Collection Date: 3/16/2020 10:45:00 AM
Lab ID: 2003740-010 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	3/17/2020 1:34:21 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/17/2020 12:27:23 PM	51144
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/17/2020 12:27:23 PM	51144
Surr: DNOP	82.7	55.1-146		%Rec	1	3/17/2020 12:27:23 PM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/17/2020 11:55:05 AM	G67350
Surr: BFB	74.7	66.6-105		%Rec	1	3/17/2020 11:55:05 AM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/17/2020 11:55:05 AM	B67350
Toluene	ND	0.044		mg/Kg	1	3/17/2020 11:55:05 AM	B67350
Ethylbenzene	ND	0.044		mg/Kg	1	3/17/2020 11:55:05 AM	B67350
Xylenes, Total	ND	0.087		mg/Kg	1	3/17/2020 11:55:05 AM	B67350
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	3/17/2020 11:55:05 AM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-14
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:50:00 AM
Lab ID: 2003740-011 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/17/2020 1:46:42 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	30	9.8		mg/Kg	1	3/17/2020 12:49:24 PM	51144
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/17/2020 12:49:24 PM	51144
Surr: DNOP	82.1	55.1-146		%Rec	1	3/17/2020 12:49:24 PM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	450	20		mg/Kg	5	3/17/2020 12:42:21 PM	G67350
Surr: BFB	249	66.6-105	S	%Rec	5	3/17/2020 12:42:21 PM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.73	0.099		mg/Kg	5	3/17/2020 12:42:21 PM	B67350
Toluene	7.0	0.20		mg/Kg	5	3/17/2020 12:42:21 PM	B67350
Ethylbenzene	2.4	0.20		mg/Kg	5	3/17/2020 12:42:21 PM	B67350
Xylenes, Total	25	0.40		mg/Kg	5	3/17/2020 12:42:21 PM	B67350
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	5	3/17/2020 12:42:21 PM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003740**
Date Reported: **3/18/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-15
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 10:55:00 AM
Lab ID: 2003740-012 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	86	59		mg/Kg	20	3/17/2020 1:59:02 PM	51138
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	79	9.1		mg/Kg	1	3/17/2020 12:50:14 PM	51144
Motor Oil Range Organics (MRO)	110	45		mg/Kg	1	3/17/2020 12:50:14 PM	51144
Surr: DNOP	94.5	55.1-146		%Rec	1	3/17/2020 12:50:14 PM	51144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	290	20		mg/Kg	5	3/17/2020 1:05:41 PM	G67350
Surr: BFB	268	66.6-105	S	%Rec	5	3/17/2020 1:05:41 PM	G67350
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.44	0.099		mg/Kg	5	3/17/2020 1:05:41 PM	B67350
Toluene	4.4	0.20		mg/Kg	5	3/17/2020 1:05:41 PM	B67350
Ethylbenzene	2.0	0.20		mg/Kg	5	3/17/2020 1:05:41 PM	B67350
Xylenes, Total	23	0.40		mg/Kg	5	3/17/2020 1:05:41 PM	B67350
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	5	3/17/2020 1:05:41 PM	B67350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003740**

18-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51138** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **51138** RunNo: **67352**

Prep Date: **3/16/2020** Analysis Date: **3/17/2020** SeqNo: **2323300** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51138** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **51138** RunNo: **67352**

Prep Date: **3/16/2020** Analysis Date: **3/17/2020** SeqNo: **2323301** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003740**
18-Mar-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **LCS-51086**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **51086**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/16/2020**	SeqNo: **2320643**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	55.1	146			

Sample ID: **MB-51086**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **51086**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/16/2020**	SeqNo: **2320644**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	55.1	146			

Sample ID: **LCS-51100**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **51100**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/17/2020**	SeqNo: **2321410**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.7	55.1	146			

Sample ID: **LCS-51144**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **51144**	RunNo: **67313**							
Prep Date: **3/17/2020**	Analysis Date: **3/17/2020**	SeqNo: **2321411**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.0	70	130			
Surr: DNOP	4.2		5.000		84.8	55.1	146			

Sample ID: **MB-51100**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **51100**	RunNo: **67313**							
Prep Date: **3/13/2020**	Analysis Date: **3/17/2020**	SeqNo: **2321412**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.4	55.1	146			

Sample ID: **MB-51144**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **51144**	RunNo: **67313**							
Prep Date: **3/17/2020**	Analysis Date: **3/17/2020**	SeqNo: **2321413**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.8	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003740**

18-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G67350**	RunNo: **67350**
Prep Date:	Analysis Date: **3/17/2020**	SeqNo: **2322831** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	710		1000		70.7	66.6	105			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G67350**	RunNo: **67350**
Prep Date:	Analysis Date: **3/17/2020**	SeqNo: **2322832** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	80	120			
Surr: BFB	940		1000		94.3	66.6	105			

Sample ID: **mb-51119**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **51119**	RunNo: **67350**
Prep Date: **3/16/2020**	Analysis Date: **3/18/2020**	SeqNo: **2322850** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	740		1000		73.7	66.6	105			

Sample ID: **lcs-51119**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51119**	RunNo: **67350**
Prep Date: **3/16/2020**	Analysis Date: **3/18/2020**	SeqNo: **2322851** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		86.3	66.6	105			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003740**

18-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **B67350** RunNo: **67350**

Prep Date: Analysis Date: **3/17/2020** SeqNo: **2322865** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.3	80	120			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **B67350** RunNo: **67350**

Prep Date: Analysis Date: **3/17/2020** SeqNo: **2322866** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.4	80	120			
Toluene	0.82	0.050	1.000	0	82.3	80	120			
Ethylbenzene	0.82	0.050	1.000	0	82.4	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.4	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	80	120			

Sample ID: **mb-51119** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **51119** RunNo: **67350**

Prep Date: **3/16/2020** Analysis Date: **3/18/2020** SeqNo: **2322879** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	80	120			

Sample ID: **LCS-51119** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **51119** RunNo: **67350**

Prep Date: **3/16/2020** Analysis Date: **3/18/2020** SeqNo: **2322880** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 2003740 RcptNo: 1

Received By: **Juan Rojas** 3/17/2020 8:05:00 AM

Completed By: **Anne Thorne** 3/17/2020 8:14:49 AM

Reviewed By: JR 3/17/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: DAD 3/17/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 3/17/20

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 100% Same Day
☐ Standard ☑ Rush 3-17-20

Project Name: Blanco Vent Tank

Project #: 05A1226012

Project Manager: K. Summers

Sampler: C. Atenti L. Daniell

On Ice: ☑ Yes ☐ No

Sample Temperature: 0.6+0.2=0.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and # (AT 03/17/20 mc 4oz 1)	Preservative Type	HEAL No. 2003740	BTEX + ~~MTBE~~ + ~~TMB~~'s (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F^-, Cl^-, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3/16/20	1000	S	S-4	1 4oz	Cool	001	X		X					X								
3/16/20	1005	S	S-5		Cool	002	X		X					X								
3/16/20	1010	S	S-6		Cool	003	X		X					X								
3/16/20	1015	S	S-7		Cool	004	X		X					X								
3/16/20	1020	S	S-8		Cool	005	X		X					X								
3/16/20	1025	S	S-9		Cool	006	X		X					X								
3/16/20	1030	S	S-10		Cool	007	X		X					X								
3/16/20	1035	S	S-11		Cool	008	X		X					X								
3/16/20	1040	S	S-12		Cool	009	X		X					X								
3/16/20	1045	S	S-13		Cool	010	X		X					X								
3/16/20	1050	S	S-14		Cool	011	X		X					X								
3/16/20	1055	S	S-15		Cool	012	X		X					X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/16/20	1237		Christine Walters	3/16/20	1237
3/16/20	1744	Christine Walters		3/17/20	8:05

Remarks: Bill to Ensolum

Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 20, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Blanco Vent Tank OrderNo.: 2003743

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/17/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003743**
Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-16
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 11:00:00 AM
Lab ID: 2003743-001 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	60		mg/Kg	20	3/19/2020 5:51:43 PM	51230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	27	9.7		mg/Kg	1	3/19/2020 6:40:33 AM	51152
Motor Oil Range Organics (MRO)	58	48		mg/Kg	1	3/19/2020 6:40:33 AM	51152
Surr: DNOP	92.6	55.1-146		%Rec	1	3/19/2020 6:40:33 AM	51152
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	59	23		mg/Kg	5	3/19/2020 8:24:58 PM	51153
Surr: BFB	127	66.6-105	S	%Rec	5	3/19/2020 8:24:58 PM	51153
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.36	0.12		mg/Kg	5	3/19/2020 8:24:58 PM	51153
Toluene	0.45	0.23		mg/Kg	5	3/19/2020 8:24:58 PM	51153
Ethylbenzene	0.42	0.23		mg/Kg	5	3/19/2020 8:24:58 PM	51153
Xylenes, Total	4.6	0.46		mg/Kg	5	3/19/2020 8:24:58 PM	51153
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	5	3/19/2020 8:24:58 PM	51153

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003743**
Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-17
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 11:05:00 AM
Lab ID: 2003743-002 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	3/19/2020 6:53:25 PM	51230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/19/2020 7:05:20 AM	51152
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/19/2020 7:05:20 AM	51152
Surr: DNOP	94.7	55.1-146		%Rec	1	3/19/2020 7:05:20 AM	51152
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	14	4.8		mg/Kg	1	3/19/2020 9:35:13 PM	51153
Surr: BFB	163	66.6-105	S	%Rec	1	3/19/2020 9:35:13 PM	51153
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/19/2020 9:35:13 PM	51153
Toluene	ND	0.048		mg/Kg	1	3/19/2020 9:35:13 PM	51153
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2020 9:35:13 PM	51153
Xylenes, Total	0.099	0.096		mg/Kg	1	3/19/2020 9:35:13 PM	51153
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	3/19/2020 9:35:13 PM	51153

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003743**
Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-18
Project: Blanco Vent Tank
Collection Date: 3/16/2020 11:10:00 AM
Lab ID: 2003743-003 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	62	60		mg/Kg	20	3/19/2020 7:05:45 PM	51230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/19/2020 7:29:23 AM	51152
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2020 7:29:23 AM	51152
Surr: DNOP	95.7	55.1-146		%Rec	1	3/19/2020 7:29:23 AM	51152
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2020 10:45:44 PM	51153
Surr: BFB	102	66.6-105		%Rec	1	3/19/2020 10:45:44 PM	51153
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/19/2020 10:45:44 PM	51153
Toluene	ND	0.048		mg/Kg	1	3/19/2020 10:45:44 PM	51153
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2020 10:45:44 PM	51153
Xylenes, Total	ND	0.097		mg/Kg	1	3/19/2020 10:45:44 PM	51153
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	3/19/2020 10:45:44 PM	51153

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003743**
Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-19
Project: Blanco Vent Tank **Collection Date:** 3/16/2020 11:15:00 AM
Lab ID: 2003743-004 **Matrix:** SOIL **Received Date:** 3/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	74	60		mg/Kg	20	3/19/2020 7:18:07 PM	51230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	360	9.5		mg/Kg	1	3/19/2020 7:53:44 AM	51152
Motor Oil Range Organics (MRO)	230	48		mg/Kg	1	3/19/2020 7:53:44 AM	51152
Surr: DNOP	97.8	55.1-146		%Rec	1	3/19/2020 7:53:44 AM	51152
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	7300	480		mg/Kg	100	3/19/2020 11:09:10 PM	51153
Surr: BFB	149	66.6-105	S	%Rec	100	3/19/2020 11:09:10 PM	51153
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	26	2.4		mg/Kg	100	3/18/2020 9:00:25 PM	51153
Toluene	170	4.8		mg/Kg	100	3/18/2020 9:00:25 PM	51153
Ethylbenzene	24	4.8		mg/Kg	100	3/18/2020 9:00:25 PM	51153
Xylenes, Total	270	9.5		mg/Kg	100	3/18/2020 9:00:25 PM	51153
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	100	3/18/2020 9:00:25 PM	51153

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003743**

20-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51230**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **51230**	RunNo: **67421**
Prep Date: **3/19/2020**	Analysis Date: **3/19/2020**	SeqNo: **2326772** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51230**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **51230**	RunNo: **67421**
Prep Date: **3/19/2020**	Analysis Date: **3/19/2020**	SeqNo: **2326773** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003743**

20-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **LCS-51100** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51100** RunNo: **67313**
Prep Date: **3/13/2020** Analysis Date: **3/17/2020** SeqNo: **2321410** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.7	55.1	146			

Sample ID: **MB-51100** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51100** RunNo: **67313**
Prep Date: **3/13/2020** Analysis Date: **3/17/2020** SeqNo: **2321412** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.4	55.1	146			

Sample ID: **LCS-51152** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51152** RunNo: **67313**
Prep Date: **3/17/2020** Analysis Date: **3/19/2020** SeqNo: **2325138** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	70	130			
Surr: DNOP	4.1		5.000		81.4	55.1	146			

Sample ID: **MB-51152** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51152** RunNo: **67313**
Prep Date: **3/17/2020** Analysis Date: **3/19/2020** SeqNo: **2325139** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003743**

20-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb-51153** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **51153** RunNo: **67436**

Prep Date: **3/17/2020** Analysis Date: **3/19/2020** SeqNo: **2326222** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.0	66.6	105			

Sample ID: **lcs-51153** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **51153** RunNo: **67436**

Prep Date: **3/17/2020** Analysis Date: **3/19/2020** SeqNo: **2326223** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	80	120			
Surr: BFB	1000		1000		103	66.6	105			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003743**

20-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb-51153** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **51153** RunNo: **67382**

Prep Date: **3/17/2020** Analysis Date: **3/18/2020** SeqNo: **2324686** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.7	80	120			

Sample ID: **lcs-51153** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **51153** RunNo: **67382**

Prep Date: **3/17/2020** Analysis Date: **3/18/2020** SeqNo: **2324687** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.6	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 2003743 RcptNo: 1

Received By: **Juan Rojas** 3/17/2020 8:05:00 AM

Completed By: **Anne Thorne** 3/17/2020 8:39:58 AM

Reviewed By: ENM 3/17/20

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: DAD 3/16/20 17 DAD 3/17/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 3/17/20

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S. Broadway Suite A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 3-19-20

Project Name: Blanco Vent Tank

Project #: 05A1226012

Project Manager: K. Summers

Sampler: CAponti, LDaniel

On Ice: ☑ Yes ☐ No

Sample Temperature: 0.6 +0.2 = 0.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2003743
3/16/20	1100	S	S-16	1 4oz Jar	Cool	001
3/16/20	1105	S	S-17	1 4oz Jar	Cool	002
3/16/20	1110	S	S-18	1 4oz Jar	Cool	003
3/16/20	1115	S	S-19	1 4oz Jar	Cool	004

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
X		X					X				
X		X					X				
X		X					X				
X		X					X				

Date	Time	Relinquished by:	Received by:	Date	Time
3/16/20	1237		Christine Walters	3/16/20	1237
3/16/20	1744	Christine Walters	courier	3/17/20	8:05

Remarks: Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 27, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Blanco Vent Tank OrderNo.: 2003A87

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/25/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-20
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:00:00 AM
Lab ID: 2003A87-001 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	61		mg/Kg	20	3/25/2020 11:43:15 AM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/25/2020 11:41:57 AM	51277
Surr: BFB	98.0	70-130		%Rec	1	3/25/2020 11:41:57 AM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/25/2020 10:08:11 AM	51313
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/25/2020 10:08:11 AM	51313
Surr: DNOP	93.0	55.1-146		%Rec	1	3/25/2020 10:08:11 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.021		mg/Kg	1	3/25/2020 11:41:57 AM	51277
Toluene	ND	0.041		mg/Kg	1	3/25/2020 11:41:57 AM	51277
Ethylbenzene	ND	0.041		mg/Kg	1	3/25/2020 11:41:57 AM	51277
Xylenes, Total	ND	0.083		mg/Kg	1	3/25/2020 11:41:57 AM	51277
Surr: 1,2-Dichloroethane-d4	87.3	70-130		%Rec	1	3/25/2020 11:41:57 AM	51277
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	3/25/2020 11:41:57 AM	51277
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	3/25/2020 11:41:57 AM	51277
Surr: Toluene-d8	92.2	70-130		%Rec	1	3/25/2020 11:41:57 AM	51277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-21
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:05:00 AM
Lab ID: 2003A87-002 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/25/2020 11:55:37 AM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/25/2020 12:10:36 PM	51277
Surr: BFB	103	70-130		%Rec	1	3/25/2020 12:10:36 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/25/2020 10:32:00 AM	51313
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/25/2020 10:32:00 AM	51313
Surr: DNOP	92.5	55.1-146		%Rec	1	3/25/2020 10:32:00 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	3/25/2020 12:10:36 PM	51277
Toluene	ND	0.048		mg/Kg	1	3/25/2020 12:10:36 PM	51277
Ethylbenzene	ND	0.048		mg/Kg	1	3/25/2020 12:10:36 PM	51277
Xylenes, Total	0.12	0.097		mg/Kg	1	3/25/2020 12:10:36 PM	51277
Surr: 1,2-Dichloroethane-d4	88.4	70-130		%Rec	1	3/25/2020 12:10:36 PM	51277
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/25/2020 12:10:36 PM	51277
Surr: Dibromofluoromethane	91.9	70-130		%Rec	1	3/25/2020 12:10:36 PM	51277
Surr: Toluene-d8	93.9	70-130		%Rec	1	3/25/2020 12:10:36 PM	51277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-22
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:10:00 AM
Lab ID: 2003A87-003 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/25/2020 12:07:58 PM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	3/25/2020 12:39:03 PM	51277
Surr: BFB	97.5	70-130		%Rec	1	3/25/2020 12:39:03 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/25/2020 10:55:57 AM	51313
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/25/2020 10:55:57 AM	51313
Surr: DNOP	91.1	55.1-146		%Rec	1	3/25/2020 10:55:57 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	3/25/2020 12:39:03 PM	51277
Toluene	ND	0.045		mg/Kg	1	3/25/2020 12:39:03 PM	51277
Ethylbenzene	ND	0.045		mg/Kg	1	3/25/2020 12:39:03 PM	51277
Xylenes, Total	ND	0.091		mg/Kg	1	3/25/2020 12:39:03 PM	51277
Surr: 1,2-Dichloroethane-d4	81.3	70-130		%Rec	1	3/25/2020 12:39:03 PM	51277
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	3/25/2020 12:39:03 PM	51277
Surr: Dibromofluoromethane	91.7	70-130		%Rec	1	3/25/2020 12:39:03 PM	51277
Surr: Toluene-d8	92.6	70-130		%Rec	1	3/25/2020 12:39:03 PM	51277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-23
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:15:00 AM
Lab ID: 2003A87-004 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	3/25/2020 12:20:19 PM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	3/25/2020 1:07:24 PM	51277
Surr: BFB	100	70-130		%Rec	1	3/25/2020 1:07:24 PM	51277
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/25/2020 10:32:44 AM	51313
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/25/2020 10:32:44 AM	51313
Surr: DNOP	89.2	55.1-146		%Rec	1	3/25/2020 10:32:44 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	3/25/2020 1:07:24 PM	51277
Toluene	ND	0.051		mg/Kg	1	3/25/2020 1:07:24 PM	51277
Ethylbenzene	ND	0.051		mg/Kg	1	3/25/2020 1:07:24 PM	51277
Xylenes, Total	ND	0.10		mg/Kg	1	3/25/2020 1:07:24 PM	51277
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%Rec	1	3/25/2020 1:07:24 PM	51277
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	3/25/2020 1:07:24 PM	51277
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	3/25/2020 1:07:24 PM	51277
Surr: Toluene-d8	92.3	70-130		%Rec	1	3/25/2020 1:07:24 PM	51277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-24
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:20:00 AM
Lab ID: 2003A87-005 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	62	60		mg/Kg	20	3/25/2020 12:32:41 PM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	270	21		mg/Kg	5	3/25/2020 11:47:49 AM	G67565
Surr: BFB	106	70-130		%Rec	5	3/25/2020 11:47:49 AM	G67565
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	46	9.3		mg/Kg	1	3/25/2020 10:08:49 AM	51313
Motor Oil Range Organics (MRO)	92	46		mg/Kg	1	3/25/2020 10:08:49 AM	51313
Surr: DNOP	96.5	55.1-146		%Rec	1	3/25/2020 10:08:49 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.10		mg/Kg	5	3/25/2020 11:47:49 AM	SL67565
Toluene	0.57	0.21		mg/Kg	5	3/25/2020 11:47:49 AM	SL67565
Ethylbenzene	0.52	0.21		mg/Kg	5	3/25/2020 11:47:49 AM	SL67565
Xylenes, Total	6.6	0.42		mg/Kg	5	3/25/2020 11:47:49 AM	SL67565
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	5	3/25/2020 11:47:49 AM	SL67565
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	5	3/25/2020 11:47:49 AM	SL67565
Surr: Dibromofluoromethane	106	70-130		%Rec	5	3/25/2020 11:47:49 AM	SL67565
Surr: Toluene-d8	98.3	70-130		%Rec	5	3/25/2020 11:47:49 AM	SL67565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-25
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:25:00 AM
Lab ID: 2003A87-006 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/25/2020 12:45:01 PM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/25/2020 12:17:02 PM	G67565
Surr: BFB	98.4	70-130		%Rec	1	3/25/2020 12:17:02 PM	G67565
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/25/2020 10:54:39 AM	51313
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2020 10:54:39 AM	51313
Surr: DNOP	89.0	55.1-146		%Rec	1	3/25/2020 10:54:39 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	3/25/2020 12:17:02 PM	SL67565
Toluene	ND	0.049		mg/Kg	1	3/25/2020 12:17:02 PM	SL67565
Ethylbenzene	ND	0.049		mg/Kg	1	3/25/2020 12:17:02 PM	SL67565
Xylenes, Total	ND	0.097		mg/Kg	1	3/25/2020 12:17:02 PM	SL67565
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	1	3/25/2020 12:17:02 PM	SL67565
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	3/25/2020 12:17:02 PM	SL67565
Surr: Dibromofluoromethane	118	70-130		%Rec	1	3/25/2020 12:17:02 PM	SL67565
Surr: Toluene-d8	95.3	70-130		%Rec	1	3/25/2020 12:17:02 PM	SL67565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-26
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:30:00 AM
Lab ID: 2003A87-007 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/25/2020 12:57:23 PM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/25/2020 12:46:25 PM	G67565
Surr: BFB	102	70-130		%Rec	1	3/25/2020 12:46:25 PM	G67565
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/25/2020 10:58:01 AM	51313
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/25/2020 10:58:01 AM	51313
Surr: DNOP	86.3	55.1-146		%Rec	1	3/25/2020 10:58:01 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.020		mg/Kg	1	3/25/2020 12:46:25 PM	SL67565
Toluene	ND	0.041		mg/Kg	1	3/25/2020 12:46:25 PM	SL67565
Ethylbenzene	ND	0.041		mg/Kg	1	3/25/2020 12:46:25 PM	SL67565
Xylenes, Total	ND	0.081		mg/Kg	1	3/25/2020 12:46:25 PM	SL67565
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	3/25/2020 12:46:25 PM	SL67565
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	1	3/25/2020 12:46:25 PM	SL67565
Surr: Dibromofluoromethane	124	70-130		%Rec	1	3/25/2020 12:46:25 PM	SL67565
Surr: Toluene-d8	98.1	70-130		%Rec	1	3/25/2020 12:46:25 PM	SL67565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A87**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-27
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 10:35:00 AM
Lab ID: 2003A87-008 **Matrix:** MEOH (SOIL) **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	59		mg/Kg	20	3/25/2020 1:09:43 PM	51316
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	570	18		mg/Kg	5	3/25/2020 1:16:19 PM	G67565
Surr: BFB	103	70-130		%Rec	5	3/25/2020 1:16:19 PM	G67565
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	28	9.6		mg/Kg	1	3/25/2020 10:33:18 AM	51313
Motor Oil Range Organics (MRO)	61	48		mg/Kg	1	3/25/2020 10:33:18 AM	51313
Surr: DNOP	92.0	55.1-146		%Rec	1	3/25/2020 10:33:18 AM	51313
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.092		mg/Kg	5	3/25/2020 1:16:19 PM	SL67565
Toluene	0.31	0.18		mg/Kg	5	3/25/2020 1:16:19 PM	SL67565
Ethylbenzene	0.38	0.18		mg/Kg	5	3/25/2020 1:16:19 PM	SL67565
Xylenes, Total	7.6	0.37		mg/Kg	5	3/25/2020 1:16:19 PM	SL67565
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	5	3/25/2020 1:16:19 PM	SL67565
Surr: 4-Bromofluorobenzene	76.5	70-130		%Rec	5	3/25/2020 1:16:19 PM	SL67565
Surr: Dibromofluoromethane	102	70-130		%Rec	5	3/25/2020 1:16:19 PM	SL67565
Surr: Toluene-d8	90.6	70-130		%Rec	5	3/25/2020 1:16:19 PM	SL67565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51316**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **51316**	RunNo: **67561**
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2333041** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51316**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **51316**	RunNo: **67561**
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2333042** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51313**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **51313**	RunNo: **67548**
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2331745** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.5	55.1	146			

Sample ID: **LCS-51313**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **51313**	RunNo: **67549**
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2331808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.1	70	130			
Surr: DNOP	4.1		5.000		81.8	55.1	146			

Sample ID: **2003A87-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-20**	Batch ID: **51313**	RunNo: **67553**
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	47.85	3.235	87.4	47.4	136			
Surr: DNOP	4.4		4.785		91.8	55.1	146			

Sample ID: **2003A87-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-20**	Batch ID: **51313**	RunNo: **67553**
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.7	48.36	3.235	88.0	47.4	136	1.57	43.4	
Surr: DNOP	4.5		4.836		93.0	55.1	146	0	0	

Sample ID: **LCS-51299**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **51299**	RunNo: **67548**
Prep Date: **3/24/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332705** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		105	55.1	146			

Sample ID: **MB-51299**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **51299**	RunNo: **67548**
Prep Date: **3/24/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332706** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51299** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **51299** RunNo: **67548**

Prep Date: **3/24/2020** Analysis Date: **3/25/2020** SeqNo: **2332706** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **lcs-51277**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **51277**	RunNo: **67556**
Prep Date: **3/23/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332308** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.1	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.2	70	130			

Sample ID: **mb-51277**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **51277**	RunNo: **67556**
Prep Date: **3/23/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332310** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.3	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **SL67565**	RunNo: **67565**
Prep Date:	Analysis Date: **3/25/2020**	SeqNo: **2332771** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.3	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **SL67565**	RunNo: **67565**
Prep Date:	Analysis Date: **3/25/2020**	SeqNo: **2332772** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**
27-Mar-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **SL67565** RunNo: **67565**
Prep Date: Analysis Date: **3/25/2020** SeqNo: **2332772** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	0.95	0.050	1.000	0	95.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.1	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.49		0.5000		98.7	70	130			

Sample ID: **2003a87-005ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-24** Batch ID: **SL67565** RunNo: **67565**
Prep Date: Analysis Date: **3/25/2020** SeqNo: **2332773** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.9	0.10	4.174	0.02608	92.9	70	130			
Toluene	4.3	0.21	4.174	0.5670	89.8	70	130			
Surr: 1,2-Dichloroethane-d4	2.0		2.087		98.2	70	130			
Surr: 4-Bromofluorobenzene	1.6		2.087		78.3	70	130			
Surr: Dibromofluoromethane	2.0		2.087		96.3	70	130			
Surr: Toluene-d8	1.8		2.087		88.3	70	130			

Sample ID: **2003a87-005amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **S-24** Batch ID: **SL67565** RunNo: **67565**
Prep Date: Analysis Date: **3/25/2020** SeqNo: **2332774** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.7	0.10	4.174	0.02608	88.6	70	130	4.67	20	
Toluene	4.7	0.21	4.174	0.5670	98.4	70	130	8.05	20	
Surr: 1,2-Dichloroethane-d4	2.0		2.087		93.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	1.7		2.087		81.0	70	130	0	0	
Surr: Dibromofluoromethane	1.9		2.087		90.4	70	130	0	0	
Surr: Toluene-d8	1.9		2.087		92.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **lcs-51277**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51277**	RunNo: **67556**
Prep Date: **3/23/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332351** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.5	70	130			
Surr: BFB	500		500.0		99.8	70	130			

Sample ID: **mb-51277**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **51277**	RunNo: **67556**
Prep Date: **3/23/2020**	Analysis Date: **3/25/2020**	SeqNo: **2332359** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		101	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **G67565**	RunNo: **67565**
Prep Date:	Analysis Date: **3/25/2020**	SeqNo: **2332809** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	520		500.0		104	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G67565**	RunNo: **67565**
Prep Date:	Analysis Date: **3/25/2020**	SeqNo: **2332810** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.5	70	130			
Surr: BFB	530		500.0		107	70	130			

Sample ID: **2003a87-006ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-25**	Batch ID: **G67565**	RunNo: **67565**
Prep Date:	Analysis Date: **3/25/2020**	SeqNo: **2332811** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.27	0	89.9	70	130			
Surr: BFB	480		485.4		98.3	70	130			

Sample ID: **2003a87-006amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-25**	Batch ID: **G67565**	RunNo: **67565**
Prep Date:	Analysis Date: **3/25/2020**	SeqNo: **2332812** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A87**
27-Mar-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **2003a87-006amsd** SampType: **MSD** TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-25** Batch ID: **G67565** RunNo: **67565**
Prep Date: Analysis Date: **3/25/2020** SeqNo: **2332812** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.27	0	84.2	70	130	6.62	20	
Surr: BFB	470		485.4		97.7	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2003A87** RcptNo: **1**

Received By: **Isaiah Ortiz** **3/25/2020 8:45:00 AM** I-OK

Completed By: **Isaiah Ortiz** **3/25/2020 8:46:08 AM** I-OK

Reviewed By: LB 3/25/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: DAD 3/25/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Turn-Around Time: Same Day 100% ☐ Standard ☒ Rush 3-25-20

Client: Ensolum

Mailing Address: 606 Rio Grande Suite A 87410

Phone #:

email or Fax#:

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Project Name: Blanco Vent Tank

Project #: 05A1226012

Project Manager: K. Summers

Sampler: C DAponte

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4-0=0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2003A87	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/24/20	1000	S	S-20	1 4oz Jar	Cool	-001	X	X					X			
3/24	1005	S	S-21		Cool	-002	X	X					X			
3/24	1010	S	S-22		Cool	-003	X	X					X			
3/24	1015	S	S-23		Cool	-004	X	X					X			
3/24	1020	S	S-24		Cool	-005	X	X					X			
3/24	1025	S	S-25		Cool	-006	X	X					X			
3/24	1030	S	S-26		Cool	-007	X	X					X			
3/24	1035	S	S-27		Cool	-008	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/24	1350		[illegible] Ward		3/24/20	1350
3/24/20	1736	Christian Llaneza	[illegible]	courier	3/25/20	0845

Remarks: Bill to Ensolum

Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 30, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Blanco Vent Tank OrderNo.: 2003A90

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/25/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-1
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:00:00 AM
Lab ID: 2003A90-001 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/25/2020 10:37:44 PM	51329
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2020 8:00:41 PM	51320
Surr: BFB	92.1	70-130		%Rec	1	3/26/2020 8:00:41 PM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/26/2020 12:24:23 PM	51325
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2020 12:24:23 PM	51325
Surr: DNOP	94.6	55.1-146		%Rec	1	3/26/2020 12:24:23 PM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/26/2020 8:00:41 PM	51320
Toluene	ND	0.049		mg/Kg	1	3/26/2020 8:00:41 PM	51320
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2020 8:00:41 PM	51320
Xylenes, Total	ND	0.099		mg/Kg	1	3/26/2020 8:00:41 PM	51320
Surr: 1,2-Dichloroethane-d4	83.9	70-130		%Rec	1	3/26/2020 8:00:41 PM	51320
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/26/2020 8:00:41 PM	51320
Surr: Dibromofluoromethane	91.3	70-130		%Rec	1	3/26/2020 8:00:41 PM	51320
Surr: Toluene-d8	102	70-130		%Rec	1	3/26/2020 8:00:41 PM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-2
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:05:00 AM
Lab ID: 2003A90-002 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	100	60		mg/Kg	20	3/25/2020 11:39:29 PM	51329
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2020 11:49:37 PM	51320
Surr: BFB	94.9	70-130		%Rec	1	3/26/2020 11:49:37 PM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	31	19		mg/Kg	2	3/27/2020 10:00:55 AM	51325
Motor Oil Range Organics (MRO)	280	96		mg/Kg	2	3/27/2020 10:00:55 AM	51325
Surr: DNOP	88.2	55.1-146		%Rec	2	3/27/2020 10:00:55 AM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/26/2020 11:49:37 PM	51320
Toluene	ND	0.049		mg/Kg	1	3/26/2020 11:49:37 PM	51320
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2020 11:49:37 PM	51320
Xylenes, Total	ND	0.098		mg/Kg	1	3/26/2020 11:49:37 PM	51320
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	3/26/2020 11:49:37 PM	51320
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/26/2020 11:49:37 PM	51320
Surr: Dibromofluoromethane	96.0	70-130		%Rec	1	3/26/2020 11:49:37 PM	51320
Surr: Toluene-d8	102	70-130		%Rec	1	3/26/2020 11:49:37 PM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-3
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:10:00 AM
Lab ID: 2003A90-003 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	260	60		mg/Kg	20	3/25/2020 11:51:50 PM	51329
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/27/2020 1:15:33 AM	51320
Surr: BFB	90.5	70-130		%Rec	1	3/27/2020 1:15:33 AM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/26/2020 2:02:18 PM	51325
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/26/2020 2:02:18 PM	51325
Surr: DNOP	92.5	55.1-146		%Rec	1	3/26/2020 2:02:18 PM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/27/2020 1:15:33 AM	51320
Toluene	ND	0.050		mg/Kg	1	3/27/2020 1:15:33 AM	51320
Ethylbenzene	ND	0.050		mg/Kg	1	3/27/2020 1:15:33 AM	51320
Xylenes, Total	ND	0.099		mg/Kg	1	3/27/2020 1:15:33 AM	51320
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%Rec	1	3/27/2020 1:15:33 AM	51320
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	3/27/2020 1:15:33 AM	51320
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	3/27/2020 1:15:33 AM	51320
Surr: Toluene-d8	103	70-130		%Rec	1	3/27/2020 1:15:33 AM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SP-4
Project: Blanco Vent Tank
Collection Date: 3/24/2020 11:15:00 AM
Lab ID: 2003A90-004 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	220	60		mg/Kg	20	3/26/2020 12:04:10 AM	51329
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/27/2020 1:44:17 AM	51320
Surr: BFB	93.0	70-130		%Rec	1	3/27/2020 1:44:17 AM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/26/2020 2:26:49 PM	51325
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/26/2020 2:26:49 PM	51325
Surr: DNOP	92.5	55.1-146		%Rec	1	3/26/2020 2:26:49 PM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/27/2020 1:44:17 AM	51320
Toluene	ND	0.050		mg/Kg	1	3/27/2020 1:44:17 AM	51320
Ethylbenzene	ND	0.050		mg/Kg	1	3/27/2020 1:44:17 AM	51320
Xylenes, Total	ND	0.10		mg/Kg	1	3/27/2020 1:44:17 AM	51320
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	3/27/2020 1:44:17 AM	51320
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	3/27/2020 1:44:17 AM	51320
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	3/27/2020 1:44:17 AM	51320
Surr: Toluene-d8	101	70-130		%Rec	1	3/27/2020 1:44:17 AM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-5
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:20:00 AM
Lab ID: 2003A90-005 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	210	60		mg/Kg	20	3/26/2020 12:16:30 AM	51329
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/27/2020 2:13:00 AM	51320
Surr: BFB	90.0	70-130		%Rec	1	3/27/2020 2:13:00 AM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	150	50		mg/Kg	5	3/27/2020 8:47:35 AM	51325
Motor Oil Range Organics (MRO)	410	250		mg/Kg	5	3/27/2020 8:47:35 AM	51325
Surr: DNOP	78.6	55.1-146		%Rec	5	3/27/2020 8:47:35 AM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/27/2020 2:13:00 AM	51320
Toluene	ND	0.050		mg/Kg	1	3/27/2020 2:13:00 AM	51320
Ethylbenzene	ND	0.050		mg/Kg	1	3/27/2020 2:13:00 AM	51320
Xylenes, Total	ND	0.099		mg/Kg	1	3/27/2020 2:13:00 AM	51320
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	3/27/2020 2:13:00 AM	51320
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	3/27/2020 2:13:00 AM	51320
Surr: Dibromofluoromethane	98.0	70-130		%Rec	1	3/27/2020 2:13:00 AM	51320
Surr: Toluene-d8	102	70-130		%Rec	1	3/27/2020 2:13:00 AM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-6
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:25:00 AM
Lab ID: 2003A90-006 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	250	60		mg/Kg	20	3/26/2020 12:30:54 PM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/27/2020 2:41:47 AM	51320
Surr: BFB	93.6	70-130		%Rec	1	3/27/2020 2:41:47 AM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/26/2020 3:15:56 PM	51325
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2020 3:15:56 PM	51325
Surr: DNOP	98.4	55.1-146		%Rec	1	3/26/2020 3:15:56 PM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/27/2020 2:41:47 AM	51320
Toluene	ND	0.050		mg/Kg	1	3/27/2020 2:41:47 AM	51320
Ethylbenzene	ND	0.050		mg/Kg	1	3/27/2020 2:41:47 AM	51320
Xylenes, Total	ND	0.10		mg/Kg	1	3/27/2020 2:41:47 AM	51320
Surr: 1,2-Dichloroethane-d4	79.6	70-130		%Rec	1	3/27/2020 2:41:47 AM	51320
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	3/27/2020 2:41:47 AM	51320
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	3/27/2020 2:41:47 AM	51320
Surr: Toluene-d8	104	70-130		%Rec	1	3/27/2020 2:41:47 AM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-7
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:30:00 AM
Lab ID: 2003A90-007 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	61		mg/Kg	20	3/26/2020 1:32:39 PM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/27/2020 3:10:31 AM	51320
Surr: BFB	92.9	70-130		%Rec	1	3/27/2020 3:10:31 AM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	15	9.9		mg/Kg	1	3/27/2020 9:11:56 AM	51325
Motor Oil Range Organics (MRO)	55	50		mg/Kg	1	3/27/2020 9:11:56 AM	51325
Surr: DNOP	98.7	55.1-146		%Rec	1	3/27/2020 9:11:56 AM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/27/2020 3:10:31 AM	51320
Toluene	ND	0.049		mg/Kg	1	3/27/2020 3:10:31 AM	51320
Ethylbenzene	ND	0.049		mg/Kg	1	3/27/2020 3:10:31 AM	51320
Xylenes, Total	ND	0.099		mg/Kg	1	3/27/2020 3:10:31 AM	51320
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%Rec	1	3/27/2020 3:10:31 AM	51320
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	3/27/2020 3:10:31 AM	51320
Surr: Dibromofluoromethane	91.6	70-130		%Rec	1	3/27/2020 3:10:31 AM	51320
Surr: Toluene-d8	105	70-130		%Rec	1	3/27/2020 3:10:31 AM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003A90**
Date Reported: **3/30/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-8
Project: Blanco Vent Tank **Collection Date:** 3/24/2020 11:35:00 AM
Lab ID: 2003A90-008 **Matrix:** SOIL **Received Date:** 3/25/2020 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	220	60		mg/Kg	20	3/26/2020 1:45:00 PM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/27/2020 3:39:15 AM	51320
Surr: BFB	91.4	70-130		%Rec	1	3/27/2020 3:39:15 AM	51320
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	16	8.7		mg/Kg	1	3/27/2020 9:36:12 AM	51325
Motor Oil Range Organics (MRO)	54	43		mg/Kg	1	3/27/2020 9:36:12 AM	51325
Surr: DNOP	96.9	55.1-146		%Rec	1	3/27/2020 9:36:12 AM	51325
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	3/27/2020 3:39:15 AM	51320
Toluene	ND	0.050		mg/Kg	1	3/27/2020 3:39:15 AM	51320
Ethylbenzene	ND	0.050		mg/Kg	1	3/27/2020 3:39:15 AM	51320
Xylenes, Total	ND	0.099		mg/Kg	1	3/27/2020 3:39:15 AM	51320
Surr: 1,2-Dichloroethane-d4	86.0	70-130		%Rec	1	3/27/2020 3:39:15 AM	51320
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	3/27/2020 3:39:15 AM	51320
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	3/27/2020 3:39:15 AM	51320
Surr: Toluene-d8	105	70-130		%Rec	1	3/27/2020 3:39:15 AM	51320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A90**

30-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51329**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51329**	RunNo: **67561**							
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2333079**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51329**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51329**	RunNo: **67561**							
Prep Date: **3/25/2020**	Analysis Date: **3/25/2020**	SeqNo: **2333080**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: **MB-51338**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51338**	RunNo: **67593**							
Prep Date: **3/26/2020**	Analysis Date: **3/26/2020**	SeqNo: **2334120**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51338**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51338**	RunNo: **67593**							
Prep Date: **3/26/2020**	Analysis Date: **3/26/2020**	SeqNo: **2334121**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A90**

30-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **2003A90-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SP-1**	Batch ID: **51325**	RunNo: **67586**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2333824** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.5	47.57	2.662	83.8	47.4	136			
Surr: DNOP	4.2		4.757		88.0	55.1	146			

Sample ID: **2003A90-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SP-1**	Batch ID: **51325**	RunNo: **67586**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2333825** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	49.95	2.662	88.9	47.4	136	10.2	43.4	
Surr: DNOP	4.6		4.995		91.4	55.1	146	0	0	

Sample ID: **LCS-51325**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **51325**	RunNo: **67586**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2333835** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	70	130			
Surr: DNOP	4.3		5.000		85.4	55.1	146			

Sample ID: **MB-51325**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **51325**	RunNo: **67586**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2333836** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.3	55.1	146			

Sample ID: **LCS-51350**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **51350**	RunNo: **67614**
Prep Date: **3/26/2020**	Analysis Date: **3/27/2020**	SeqNo: **2334994** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	55.1	146			

Sample ID: **MB-51350**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **51350**	RunNo: **67614**
Prep Date: **3/26/2020**	Analysis Date: **3/27/2020**	SeqNo: **2334995** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A90**

30-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51350** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **51350** RunNo: **67614**

Prep Date: **3/26/2020** Analysis Date: **3/27/2020** SeqNo: **2334995** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		114	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A90**
30-Mar-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **2003a90-001ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-1** Batch ID: **51320** RunNo: **67600**
Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334302** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.2	70	130			
Toluene	1.1	0.050	1.000	0	115	70	130			
Ethylbenzene	1.2	0.050	1.000	0	123	70	130			
Xylenes, Total	3.6	0.10	3.000	0	120	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.6	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.4	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		95.0	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID: **2003a90-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **SP-1** Batch ID: **51320** RunNo: **67600**
Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334303** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9960	0	87.8	70	130	4.27	20	
Toluene	1.1	0.050	0.9960	0	113	70	130	2.19	20	
Ethylbenzene	1.2	0.050	0.9960	0	117	70	130	4.84	0	
Xylenes, Total	3.5	0.10	2.988	0	118	70	130	1.52	0	
Surr: 1,2-Dichloroethane-d4	0.43		0.4980		85.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4980		100	70	130	0	0	
Surr: Dibromofluoromethane	0.46		0.4980		92.8	70	130	0	0	
Surr: Toluene-d8	0.52		0.4980		104	70	130	0	0	

Sample ID: **lcs-51320** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **51320** RunNo: **67600**
Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	80.5	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.2	0.10	3.000	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.1	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A90**
30-Mar-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **mb-51320** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **51320** RunNo: **67600**
Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334319** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003A90**

30-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **2003a90-002ams** SampType: **MS** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **SP-2** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/27/2020** SeqNo: **2334338** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.61	3.032	106	70	130			
Surr: BFB	490		492.1		99.4	70	130			

Sample ID: **2003a90-002amsd** SampType: **MSD** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **SP-2** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/27/2020** SeqNo: **2334339** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.27	3.032	101	70	130	5.36	20	
Surr: BFB	460		485.4		94.0	70	130	0	0	

Sample ID: **lcs-51320** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **LCSS** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334355** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	78.2	70	130			
Surr: BFB	470		500.0		93.3	70	130			

Sample ID: **mb-51320** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Gasoline Range**

Client ID: **PBS** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334356** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2003A90** RcptNo: 1

Received By: **Isaiah Ortiz** **3/25/2020 8:45:00 AM** I_Ox

Completed By: **Isaiah Ortiz** **3/25/2020 8:59:47 AM** I_Ox

Reviewed By: IO 3/25/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 3/25/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S. Rio Grande

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush 3-27-20

Project Name: Blanco Vent Tank

Project #: 05012260 12

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4-0(cf) 0.4 °C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2003A90	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/24	1100	S	SP-1	1 4oz Jar	Cool	-001	X	X					X			
3/24	1105	S	SP-2		Cool	-002	X	X					X			
3/24	1110	S	SP-3		Cool	-003	X	X					X			
3/24	1115	S	SP-4		Cool	-004	X	X					X			
3/24	1120	S	SP-5		Cool	-005	X	X					X			
3/24	1125	S	SP-6		Cool	-006	X	X					X			
3/24	1130	S	SP-7		Cool	-007	X	X					X			
3/24	1135	S	SP-8		Cool	-008	X	X					X			
						-										

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/24	1350				3/24/20	1350
3/24/20	1736			courier	3/25/20	0845

Remarks: B; 11 to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 27, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Blanco Vent Tank OrderNo.: 2003B56

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/26/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003B56**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-28
Project: Blanco Vent Tank **Collection Date:** 3/25/2020 10:00:00 AM
Lab ID: 2003B56-001 **Matrix:** MEOH (SOIL) **Received Date:** 3/26/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/26/2020 11:04:29 AM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/26/2020 11:27:07 AM	G67600
Surr: BFB	95.2	70-130		%Rec	1	3/26/2020 11:27:07 AM	G67600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/26/2020 9:57:03 AM	51337
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/26/2020 9:57:03 AM	51337
Surr: DNOP	91.7	55.1-146		%Rec	1	3/26/2020 9:57:03 AM	51337
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.020		mg/Kg	1	3/26/2020 11:27:07 AM	R67600
Toluene	ND	0.041		mg/Kg	1	3/26/2020 11:27:07 AM	R67600
Ethylbenzene	ND	0.041		mg/Kg	1	3/26/2020 11:27:07 AM	R67600
Xylenes, Total	ND	0.081		mg/Kg	1	3/26/2020 11:27:07 AM	R67600
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%Rec	1	3/26/2020 11:27:07 AM	R67600
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/26/2020 11:27:07 AM	R67600
Surr: Dibromofluoromethane	95.4	70-130		%Rec	1	3/26/2020 11:27:07 AM	R67600
Surr: Toluene-d8	104	70-130		%Rec	1	3/26/2020 11:27:07 AM	R67600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003B56**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-29
Project: Blanco Vent Tank **Collection Date:** 3/25/2020 10:05:00 AM
Lab ID: 2003B56-002 **Matrix:** MEOH (SOIL) **Received Date:** 3/26/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/26/2020 11:16:49 AM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2020 11:55:34 AM	G67600
Surr: BFB	98.3	70-130		%Rec	1	3/26/2020 11:55:34 AM	G67600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/26/2020 10:21:41 AM	51337
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2020 10:21:41 AM	51337
Surr: DNOP	91.0	55.1-146		%Rec	1	3/26/2020 10:21:41 AM	51337
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/26/2020 11:55:34 AM	R67600
Toluene	ND	0.049		mg/Kg	1	3/26/2020 11:55:34 AM	R67600
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2020 11:55:34 AM	R67600
Xylenes, Total	ND	0.098		mg/Kg	1	3/26/2020 11:55:34 AM	R67600
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	3/26/2020 11:55:34 AM	R67600
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	3/26/2020 11:55:34 AM	R67600
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	3/26/2020 11:55:34 AM	R67600
Surr: Toluene-d8	109	70-130		%Rec	1	3/26/2020 11:55:34 AM	R67600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003B56**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-30
Project: Blanco Vent Tank **Collection Date:** 3/25/2020 10:10:00 AM
Lab ID: 2003B56-003 **Matrix:** MEOH (SOIL) **Received Date:** 3/26/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	60	60		mg/Kg	20	3/26/2020 11:29:10 AM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/26/2020 12:24:08 PM	G67600
Surr: BFB	97.7	70-130		%Rec	1	3/26/2020 12:24:08 PM	G67600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/26/2020 9:10:18 AM	51337
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2020 9:10:18 AM	51337
Surr: DNOP	88.6	55.1-146		%Rec	1	3/26/2020 9:10:18 AM	51337
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	3/26/2020 12:24:08 PM	R67600
Toluene	ND	0.048		mg/Kg	1	3/26/2020 12:24:08 PM	R67600
Ethylbenzene	ND	0.048		mg/Kg	1	3/26/2020 12:24:08 PM	R67600
Xylenes, Total	ND	0.096		mg/Kg	1	3/26/2020 12:24:08 PM	R67600
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	1	3/26/2020 12:24:08 PM	R67600
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/26/2020 12:24:08 PM	R67600
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	3/26/2020 12:24:08 PM	R67600
Surr: Toluene-d8	107	70-130		%Rec	1	3/26/2020 12:24:08 PM	R67600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003B56**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-31
Project: Blanco Vent Tank **Collection Date:** 3/25/2020 10:15:00 AM
Lab ID: 2003B56-004 **Matrix:** MEOH (SOIL) **Received Date:** 3/26/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	69	60		mg/Kg	20	3/26/2020 11:41:31 AM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	3/26/2020 12:52:45 PM	G67600
Surr: BFB	99.0	70-130		%Rec	1	3/26/2020 12:52:45 PM	G67600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/26/2020 9:32:18 AM	51337
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2020 9:32:18 AM	51337
Surr: DNOP	90.9	55.1-146		%Rec	1	3/26/2020 9:32:18 AM	51337
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.026		mg/Kg	1	3/26/2020 12:52:45 PM	R67600
Toluene	ND	0.053		mg/Kg	1	3/26/2020 12:52:45 PM	R67600
Ethylbenzene	ND	0.053		mg/Kg	1	3/26/2020 12:52:45 PM	R67600
Xylenes, Total	ND	0.11		mg/Kg	1	3/26/2020 12:52:45 PM	R67600
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	3/26/2020 12:52:45 PM	R67600
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	3/26/2020 12:52:45 PM	R67600
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	3/26/2020 12:52:45 PM	R67600
Surr: Toluene-d8	106	70-130		%Rec	1	3/26/2020 12:52:45 PM	R67600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003B56**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-32
Project: Blanco Vent Tank **Collection Date:** 3/25/2020 10:20:00 AM
Lab ID: 2003B56-005 **Matrix:** MEOH (SOIL) **Received Date:** 3/26/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/26/2020 11:53:51 AM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/26/2020 1:21:21 PM	G67600
Surr: BFB	98.5	70-130		%Rec	1	3/26/2020 1:21:21 PM	G67600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/26/2020 9:54:22 AM	51337
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2020 9:54:22 AM	51337
Surr: DNOP	89.3	55.1-146		%Rec	1	3/26/2020 9:54:22 AM	51337
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.023		mg/Kg	1	3/26/2020 1:21:21 PM	R67600
Toluene	ND	0.046		mg/Kg	1	3/26/2020 1:21:21 PM	R67600
Ethylbenzene	ND	0.046		mg/Kg	1	3/26/2020 1:21:21 PM	R67600
Xylenes, Total	ND	0.092		mg/Kg	1	3/26/2020 1:21:21 PM	R67600
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	3/26/2020 1:21:21 PM	R67600
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/26/2020 1:21:21 PM	R67600
Surr: Dibromofluoromethane	98.0	70-130		%Rec	1	3/26/2020 1:21:21 PM	R67600
Surr: Toluene-d8	111	70-130		%Rec	1	3/26/2020 1:21:21 PM	R67600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2003B56**
Date Reported: **3/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-33
Project: Blanco Vent Tank **Collection Date:** 3/25/2020 10:25:00 AM
Lab ID: 2003B56-006 **Matrix:** MEOH (SOIL) **Received Date:** 3/26/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	91	60		mg/Kg	20	3/26/2020 12:06:12 PM	51338
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	3/26/2020 1:49:51 PM	G67600
Surr: BFB	98.1	70-130		%Rec	1	3/26/2020 1:49:51 PM	G67600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/26/2020 10:16:22 AM	51337
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2020 10:16:22 AM	51337
Surr: DNOP	88.0	55.1-146		%Rec	1	3/26/2020 10:16:22 AM	51337
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.022		mg/Kg	1	3/26/2020 1:49:51 PM	R67600
Toluene	ND	0.043		mg/Kg	1	3/26/2020 1:49:51 PM	R67600
Ethylbenzene	ND	0.043		mg/Kg	1	3/26/2020 1:49:51 PM	R67600
Xylenes, Total	ND	0.087		mg/Kg	1	3/26/2020 1:49:51 PM	R67600
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	3/26/2020 1:49:51 PM	R67600
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/26/2020 1:49:51 PM	R67600
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	3/26/2020 1:49:51 PM	R67600
Surr: Toluene-d8	108	70-130		%Rec	1	3/26/2020 1:49:51 PM	R67600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003B56**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51338**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **51338**	RunNo: **67593**
Prep Date: **3/26/2020**	Analysis Date: **3/26/2020**	SeqNo: **2334120** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51338**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **51338**	RunNo: **67593**
Prep Date: **3/26/2020**	Analysis Date: **3/26/2020**	SeqNo: **2334121** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003B56**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **LCS-51337** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51337** RunNo: **67586**
Prep Date: **3/26/2020** Analysis Date: **3/26/2020** SeqNo: **2333022** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	70	130			
Surr: DNOP	4.0		5.000		79.3	55.1	146			

Sample ID: **MB-51337** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51337** RunNo: **67586**
Prep Date: **3/26/2020** Analysis Date: **3/26/2020** SeqNo: **2333023** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.0	55.1	146			

Sample ID: **2003B56-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-28** Batch ID: **51337** RunNo: **67586**
Prep Date: **3/26/2020** Analysis Date: **3/26/2020** SeqNo: **2333833** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	8.9	44.56	0	95.3	47.4	136			
Surr: DNOP	3.9		4.456		86.5	55.1	146			

Sample ID: **2003B56-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-28** Batch ID: **51337** RunNo: **67586**
Prep Date: **3/26/2020** Analysis Date: **3/26/2020** SeqNo: **2333834** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.34	0	93.9	47.4	136	2.46	43.4	
Surr: DNOP	3.9		4.634		83.1	55.1	146	0	0	

Sample ID: **LCS-51325** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51325** RunNo: **67586**
Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2333835** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.4	55.1	146			

Sample ID: **MB-51325** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51325** RunNo: **67586**
Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2333836** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003B56**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51325**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **51325**	RunNo: **67586**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2333836** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.3	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003B56**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **LCSS** Batch ID: **R67600** RunNo: **67600**

Prep Date: Analysis Date: **3/26/2020** SeqNo: **2333385** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	70	130			
Toluene	0.99	0.050	1.000	0	98.9	70	130			
Ethylbenzene	1.0	0.050	1.000	0	102	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		97.0	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **R67600** RunNo: **67600**

Prep Date: Analysis Date: **3/26/2020** SeqNo: **2333392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.5	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.53		0.5000		107	70	130			

Sample ID: **lcs-51320** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **LCSS** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334318** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.1	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: **mb-51320** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334319** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003B56**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb-51320** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **51320** RunNo: **67600**

Prep Date: **3/25/2020** Analysis Date: **3/26/2020** SeqNo: **2334319** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: **2003b56-001ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **S-28** Batch ID: **R67600** RunNo: **67600**

Prep Date: Analysis Date: **3/26/2020** SeqNo: **2334361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.020	0.8137	0	86.1	70	130			
Toluene	0.84	0.041	0.8137	0	104	70	130			
Ethylbenzene	0.88	0.041	0.8137	0	108	70	130			
Xylenes, Total	2.6	0.081	2.441	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	0.37		0.4068		90.2	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.4068		101	70	130			
Surr: Dibromofluoromethane	0.38		0.4068		93.9	70	130			
Surr: Toluene-d8	0.43		0.4068		106	70	130			

Sample ID: **2003b56-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **S-28** Batch ID: **R67600** RunNo: **67600**

Prep Date: Analysis Date: **3/26/2020** SeqNo: **2334362** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.020	0.8137	0	82.3	70	130	4.54	20	
Toluene	0.83	0.041	0.8137	0	102	70	130	1.59	20	
Ethylbenzene	0.85	0.041	0.8137	0	105	70	130	2.45	0	
Xylenes, Total	2.5	0.081	2.441	0	104	70	130	3.38	0	
Surr: 1,2-Dichloroethane-d4	0.39		0.4068		94.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.40		0.4068		97.7	70	130	0	0	
Surr: Dibromofluoromethane	0.39		0.4068		95.7	70	130	0	0	
Surr: Toluene-d8	0.43		0.4068		106	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003B56**

27-Mar-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G67600**	RunNo: **67600**
Prep Date:	Analysis Date: **3/26/2020**	SeqNo: **2333394** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.2	70	130			
Surr: BFB	480		500.0		96.7	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **G67600**	RunNo: **67600**
Prep Date:	Analysis Date: **3/26/2020**	SeqNo: **2333401** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.6	70	130			

Sample ID: **2003b56-002ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-29**	Batch ID: **G67600**	RunNo: **67600**
Prep Date:	Analysis Date: **3/26/2020**	SeqNo: **2334353** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.39	0	88.3	70	130			
Surr: BFB	490		487.8		100	70	130			

Sample ID: **2003b56-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **S-29**	Batch ID: **G67600**	RunNo: **67600**
Prep Date:	Analysis Date: **3/26/2020**	SeqNo: **2334354** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.39	0	84.4	70	130	4.54	20	
Surr: BFB	480		487.8		98.6	70	130	0	0	

Sample ID: **lcs-51320**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51320**	RunNo: **67600**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2334355** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	470		500.0		93.3	70	130			

Sample ID: **mb-51320**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **51320**	RunNo: **67600**
Prep Date: **3/25/2020**	Analysis Date: **3/26/2020**	SeqNo: **2334356** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	470		500.0		94.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2003B56** RcptNo: **1**

Received By: **Isaiah Ortiz** **3/26/2020 7:50:00 AM** I-OX

Completed By: **Isaiah Ortiz** **3/26/2020 7:58:23 AM** I-OX

Reviewed By: JR 3/26/20

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	0
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 3/26/20 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			
2	1.2	Good	Yes			

Chain-of-Custody Record

Client: Ensdum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100% Same Day
☐ Standard ☒ Rush 3-26-20

Project Name: Blanco Vent Tank

Project #: 05A1226012

Project Manager: K Summers

Sampler: C DApont; L. Daniel

On Ice: ☒ Yes ☐ No

# of Coolers: 2 3.1-0 CF 3.1

Cooler Temp(including CF): 1.2-0 CF 1.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2003856	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/25	1000	S	S-28	1 4oz Jar	Cool	-001	X	X					X			
3/25	1005	S	S-29		Cool	-002	X	X					X			
3/25	1010	S	S-30		Cool	-003	X	X					X			
3/25	1015	S	S-31		Cool	-004	X	X					X			
3/25	1020	S	S-32		Cool	-005	X	X					X			
3/25	1025	S	S-33		Cool	-006	X	✓					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/25	1420		Christen Walker		3/25/20	1420
3/25/20	1811	Christen Walker		cour	3/26/20	0750

Remarks: Bill to Ensolum

*Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 03, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Blanco Vent Tank OrderNo.: 2003D00

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 3/31/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-34
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:00:00 AM
Lab ID: 2003D00-001 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 11:32:51 AM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/31/2020 9:45:35 AM	51435
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/31/2020 9:45:35 AM	51435
Surr: DNOP	87.7	55.1-146		%Rec	1	3/31/2020 9:45:35 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/31/2020 8:28:33 AM	G67722
Surr: BFB	96.8	66.6-105		%Rec	1	3/31/2020 8:28:33 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	3/31/2020 8:28:33 AM	B67722
Toluene	ND	0.046		mg/Kg	1	3/31/2020 8:28:33 AM	B67722
Ethylbenzene	ND	0.046		mg/Kg	1	3/31/2020 8:28:33 AM	B67722
Xylenes, Total	ND	0.092		mg/Kg	1	3/31/2020 8:28:33 AM	B67722
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/31/2020 8:28:33 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-35
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:05:00 AM
Lab ID: 2003D00-002 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	120	60		mg/Kg	20	3/31/2020 11:45:11 AM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/31/2020 10:09:41 AM	51435
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/31/2020 10:09:41 AM	51435
Surr: DNOP	87.0	55.1-146		%Rec	1	3/31/2020 10:09:41 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/31/2020 8:52:04 AM	G67722
Surr: BFB	96.9	66.6-105		%Rec	1	3/31/2020 8:52:04 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.020		mg/Kg	1	3/31/2020 8:52:04 AM	B67722
Toluene	ND	0.041		mg/Kg	1	3/31/2020 8:52:04 AM	B67722
Ethylbenzene	ND	0.041		mg/Kg	1	3/31/2020 8:52:04 AM	B67722
Xylenes, Total	ND	0.082		mg/Kg	1	3/31/2020 8:52:04 AM	B67722
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/31/2020 8:52:04 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-36
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:10:00 AM
Lab ID: 2003D00-003 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 11:57:33 AM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/31/2020 10:33:47 AM	51435
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/31/2020 10:33:47 AM	51435
Surr: DNOP	87.0	55.1-146		%Rec	1	3/31/2020 10:33:47 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	3/31/2020 9:15:45 AM	G67722
Surr: BFB	103	66.6-105		%Rec	1	3/31/2020 9:15:45 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.026	0.020		mg/Kg	1	3/31/2020 9:15:45 AM	B67722
Toluene	0.081	0.040		mg/Kg	1	3/31/2020 9:15:45 AM	B67722
Ethylbenzene	ND	0.040		mg/Kg	1	3/31/2020 9:15:45 AM	B67722
Xylenes, Total	0.24	0.081		mg/Kg	1	3/31/2020 9:15:45 AM	B67722
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/31/2020 9:15:45 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-37
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:15:00 AM
Lab ID: 2003D00-004 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 12:09:53 PM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/31/2020 10:58:05 AM	51435
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/31/2020 10:58:05 AM	51435
Surr: DNOP	87.4	55.1-146		%Rec	1	3/31/2020 10:58:05 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/31/2020 9:39:31 AM	G67722
Surr: BFB	93.2	66.6-105		%Rec	1	3/31/2020 9:39:31 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/31/2020 9:39:31 AM	B67722
Toluene	ND	0.044		mg/Kg	1	3/31/2020 9:39:31 AM	B67722
Ethylbenzene	ND	0.044		mg/Kg	1	3/31/2020 9:39:31 AM	B67722
Xylenes, Total	ND	0.088		mg/Kg	1	3/31/2020 9:39:31 AM	B67722
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	3/31/2020 9:39:31 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-38
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:20:00 AM
Lab ID: 2003D00-005 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	260	60		mg/Kg	20	3/31/2020 12:22:14 PM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/31/2020 9:47:28 AM	51435
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2020 9:47:28 AM	51435
Surr: DNOP	83.7	55.1-146		%Rec	1	3/31/2020 9:47:28 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/31/2020 10:03:15 AM	G67722
Surr: BFB	96.8	66.6-105		%Rec	1	3/31/2020 10:03:15 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	3/31/2020 10:03:15 AM	B67722
Toluene	ND	0.039		mg/Kg	1	3/31/2020 10:03:15 AM	B67722
Ethylbenzene	ND	0.039		mg/Kg	1	3/31/2020 10:03:15 AM	B67722
Xylenes, Total	ND	0.078		mg/Kg	1	3/31/2020 10:03:15 AM	B67722
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/31/2020 10:03:15 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-39
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:25:00 AM
Lab ID: 2003D00-006 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 12:34:35 PM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/31/2020 10:09:31 AM	51435
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/31/2020 10:09:31 AM	51435
Surr: DNOP	87.5	55.1-146		%Rec	1	3/31/2020 10:09:31 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	3/31/2020 10:26:54 AM	G67722
Surr: BFB	98.3	66.6-105		%Rec	1	3/31/2020 10:26:54 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	3/31/2020 10:26:54 AM	B67722
Toluene	ND	0.038		mg/Kg	1	3/31/2020 10:26:54 AM	B67722
Ethylbenzene	ND	0.038		mg/Kg	1	3/31/2020 10:26:54 AM	B67722
Xylenes, Total	ND	0.076		mg/Kg	1	3/31/2020 10:26:54 AM	B67722
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/31/2020 10:26:54 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-40
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:30:00 AM
Lab ID: 2003D00-007 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 12:46:56 PM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/31/2020 10:31:22 AM	51435
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/31/2020 10:31:22 AM	51435
Surr: DNOP	81.4	55.1-146		%Rec	1	3/31/2020 10:31:22 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	3/31/2020 10:50:35 AM	G67722
Surr: BFB	99.2	66.6-105		%Rec	1	3/31/2020 10:50:35 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	3/31/2020 10:50:35 AM	B67722
Toluene	ND	0.037		mg/Kg	1	3/31/2020 10:50:35 AM	B67722
Ethylbenzene	ND	0.037		mg/Kg	1	3/31/2020 10:50:35 AM	B67722
Xylenes, Total	ND	0.074		mg/Kg	1	3/31/2020 10:50:35 AM	B67722
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	3/31/2020 10:50:35 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-41
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:35:00 AM
Lab ID: 2003D00-008 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 12:59:17 PM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/31/2020 10:53:22 AM	51435
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/31/2020 10:53:22 AM	51435
Surr: DNOP	79.3	55.1-146		%Rec	1	3/31/2020 10:53:22 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/31/2020 11:14:19 AM	G67722
Surr: BFB	98.6	66.6-105		%Rec	1	3/31/2020 11:14:19 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	3/31/2020 11:14:19 AM	B67722
Toluene	ND	0.041		mg/Kg	1	3/31/2020 11:14:19 AM	B67722
Ethylbenzene	ND	0.041		mg/Kg	1	3/31/2020 11:14:19 AM	B67722
Xylenes, Total	ND	0.083		mg/Kg	1	3/31/2020 11:14:19 AM	B67722
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	3/31/2020 11:14:19 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2003D00**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-42
Project: Blanco Vent Tank **Collection Date:** 3/30/2020 10:40:00 AM
Lab ID: 2003D00-009 **Matrix:** MEOH (SOIL) **Received Date:** 3/31/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/31/2020 1:36:19 PM	51440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/31/2020 11:15:09 AM	51435
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/31/2020 11:15:09 AM	51435
Surr: DNOP	75.5	55.1-146		%Rec	1	3/31/2020 11:15:09 AM	51435
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/31/2020 11:38:02 AM	G67722
Surr: BFB	95.2	66.6-105		%Rec	1	3/31/2020 11:38:02 AM	G67722
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	3/31/2020 11:38:02 AM	B67722
Toluene	ND	0.035		mg/Kg	1	3/31/2020 11:38:02 AM	B67722
Ethylbenzene	ND	0.035		mg/Kg	1	3/31/2020 11:38:02 AM	B67722
Xylenes, Total	ND	0.070		mg/Kg	1	3/31/2020 11:38:02 AM	B67722
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	3/31/2020 11:38:02 AM	B67722

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003D00**
03-Apr-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **LCS-51440** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **51440** RunNo: **67727**
Prep Date: **3/31/2020** Analysis Date: **3/31/2020** SeqNo: **2339178** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003D00**

03-Apr-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **LCS-51435** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **51435** RunNo: **67718**

Prep Date: **3/31/2020** Analysis Date: **3/31/2020** SeqNo: **2337969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.1	70	130			
Surr: DNOP	3.9		5.000		78.1	55.1	146			

Sample ID: **MB-51435** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **51435** RunNo: **67718**

Prep Date: **3/31/2020** Analysis Date: **3/31/2020** SeqNo: **2337970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.0	55.1	146			

Sample ID: **LCS-51419** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **51419** RunNo: **67718**

Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339279** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.9	55.1	146			

Sample ID: **MB-51419** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **51419** RunNo: **67718**

Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339280** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.3	55.1	146			

Sample ID: **MB-51432** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **51432** RunNo: **67718**

Prep Date: **3/31/2020** Analysis Date: **4/2/2020** SeqNo: **2340291** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.7	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003D00**

03-Apr-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **G67722** RunNo: **67722**

Prep Date: Analysis Date: **3/31/2020** SeqNo: **2338663** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.5	66.6	105			

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **G67722** RunNo: **67722**

Prep Date: Analysis Date: **3/31/2020** SeqNo: **2338664** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.2	80	120			
Surr: BFB	1100		1000		107	66.6	105			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003D00**

03-Apr-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **B67722** RunNo: **67722**

Prep Date: Analysis Date: **3/31/2020** SeqNo: **2338714** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **B67722** RunNo: **67722**

Prep Date: Analysis Date: **3/31/2020** SeqNo: **2338715** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.1	80	120			
Toluene	0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2003D00** RcptNo: **1**

Received By: **Juan Rojas** **3/31/2020 8:20:00 AM** Juan Rojas

Completed By: **Isaiah Ortiz** **3/31/2020 8:24:05 AM** I-Ox

Reviewed By: MB 3/31/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: DAD 3/31/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Chain-of-Custody Record

Client: Ensolm

Mailing Address: 606 S. Rio Grande Suite A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100% Same Day
☐ Standard ☐ Rush 3-31-20

Project Name: Blanco Tank Vent

Project #: 05A1226012

Project Manager: K Summers

Sampler: Coppati

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 7.4-0.1=7.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1003000	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/30	1000	S	S-34	1 4oz Jar	Cool	-001	X	X					X			
3/30	1005	S	S-35	1 4oz Jar	Cool	-002	X	X					X			
3/30	1010	S	S-36	1 4oz Jar	Cool	-003	X	X					X			
3/30	1015	S	S-37	1 4oz Jar	Cool	-004	X	X					X			
3/30	1020	S	S-38	1 4oz Jar	Cool	-005	X	X					X			
3/30	1025	S	S-39	1 4oz Jar	Cool	-006	X	X					X			
3/30	1030	S	S-40	1 4oz Jar	Cool	-007	X	X					X			
3/30	1035	S	S-41	1 4oz Jar	Cool	-008	X	X					X			
3/30	1040	S	S-42	1 4oz Jar	Cool	-009	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/30	1256		Christen Waeters		3/30/20	1256
3/30/20	1746	Christen Waeters		courier	3/31/20	8:20

Remarks: Bill to Ensolm Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 09, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Blanco Vent Tank OrderNo.: 2004232

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/7/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-43
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:00:00 PM
Lab ID: 2004232-001 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	60		mg/Kg	20	4/7/2020 10:11:21 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	140	9.4		mg/Kg	1	4/7/2020 9:48:04 AM	51605
Motor Oil Range Organics (MRO)	140	47		mg/Kg	1	4/7/2020 9:48:04 AM	51605
Surr: DNOP	96.3	55.1-146		%Rec	1	4/7/2020 9:48:04 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1000	22		mg/Kg	5	4/7/2020 9:14:56 AM	G67914
Surr: BFB	716	66.6-105	S	%Rec	5	4/7/2020 9:14:56 AM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.60	0.11		mg/Kg	5	4/7/2020 9:14:56 AM	B67914
Toluene	ND	0.22		mg/Kg	5	4/7/2020 9:14:56 AM	B67914
Ethylbenzene	3.9	0.22		mg/Kg	5	4/7/2020 9:14:56 AM	B67914
Xylenes, Total	35	0.44		mg/Kg	5	4/7/2020 9:14:56 AM	B67914
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	5	4/7/2020 9:14:56 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-44
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:05:00 PM
Lab ID: 2004232-002 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/7/2020 10:23:42 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2020 10:10:16 AM	51605
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/7/2020 10:10:16 AM	51605
Surr: DNOP	90.4	55.1-146		%Rec	1	4/7/2020 10:10:16 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/7/2020 9:38:24 AM	G67914
Surr: BFB	94.8	66.6-105		%Rec	1	4/7/2020 9:38:24 AM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	4/7/2020 9:38:24 AM	B67914
Toluene	ND	0.040		mg/Kg	1	4/7/2020 9:38:24 AM	B67914
Ethylbenzene	ND	0.040		mg/Kg	1	4/7/2020 9:38:24 AM	B67914
Xylenes, Total	ND	0.079		mg/Kg	1	4/7/2020 9:38:24 AM	B67914
Surr: 4-Bromofluorobenzene	96.7	80-120		%Rec	1	4/7/2020 9:38:24 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-45
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:10:00 PM
Lab ID: 2004232-003 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/7/2020 10:36:03 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/7/2020 10:32:19 AM	51605
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/7/2020 10:32:19 AM	51605
Surr: DNOP	88.8	55.1-146		%Rec	1	4/7/2020 10:32:19 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	4/7/2020 10:01:45 AM	G67914
Surr: BFB	94.4	66.6-105		%Rec	1	4/7/2020 10:01:45 AM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	4/7/2020 10:01:45 AM	B67914
Toluene	ND	0.041		mg/Kg	1	4/7/2020 10:01:45 AM	B67914
Ethylbenzene	ND	0.041		mg/Kg	1	4/7/2020 10:01:45 AM	B67914
Xylenes, Total	ND	0.081		mg/Kg	1	4/7/2020 10:01:45 AM	B67914
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	4/7/2020 10:01:45 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-46
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:15:00 PM
Lab ID: 2004232-004 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	490	59		mg/Kg	20	4/7/2020 10:48:24 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2020 10:34:41 AM	51605
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2020 10:34:41 AM	51605
Surr: DNOP	99.7	55.1-146		%Rec	1	4/7/2020 10:34:41 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/7/2020 10:25:07 AM	G67914
Surr: BFB	92.9	66.6-105		%Rec	1	4/7/2020 10:25:07 AM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/7/2020 10:25:07 AM	B67914
Toluene	ND	0.045		mg/Kg	1	4/7/2020 10:25:07 AM	B67914
Ethylbenzene	ND	0.045		mg/Kg	1	4/7/2020 10:25:07 AM	B67914
Xylenes, Total	ND	0.091		mg/Kg	1	4/7/2020 10:25:07 AM	B67914
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	4/7/2020 10:25:07 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-47
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:20:00 PM
Lab ID: 2004232-005 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/7/2020 11:00:48 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	9.3	9.2		mg/Kg	1	4/7/2020 10:59:09 AM	51605
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/7/2020 10:59:09 AM	51605
Surr: DNOP	96.8	55.1-146		%Rec	1	4/7/2020 10:59:09 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	4/7/2020 10:48:35 AM	G67914
Surr: BFB	101	66.6-105		%Rec	5	4/7/2020 10:48:35 AM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.10		mg/Kg	5	4/7/2020 10:48:35 AM	B67914
Toluene	ND	0.21		mg/Kg	5	4/7/2020 10:48:35 AM	B67914
Ethylbenzene	ND	0.21		mg/Kg	5	4/7/2020 10:48:35 AM	B67914
Xylenes, Total	ND	0.41		mg/Kg	5	4/7/2020 10:48:35 AM	B67914
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	5	4/7/2020 10:48:35 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-48
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:25:00 PM
Lab ID: 2004232-006 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	72	60		mg/Kg	20	4/7/2020 11:13:07 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	21	10		mg/Kg	1	4/7/2020 11:23:40 AM	51605
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2020 11:23:40 AM	51605
Surr: DNOP	96.8	55.1-146		%Rec	1	4/7/2020 11:23:40 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/7/2020 11:12:11 AM	G67914
Surr: BFB	97.0	66.6-105		%Rec	1	4/7/2020 11:12:11 AM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/7/2020 11:12:11 AM	B67914
Toluene	ND	0.048		mg/Kg	1	4/7/2020 11:12:11 AM	B67914
Ethylbenzene	ND	0.048		mg/Kg	1	4/7/2020 11:12:11 AM	B67914
Xylenes, Total	ND	0.095		mg/Kg	1	4/7/2020 11:12:11 AM	B67914
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	4/7/2020 11:12:11 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-49
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:30:00 PM
Lab ID: 2004232-007 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	77	60		mg/Kg	20	4/7/2020 11:25:28 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	95	10		mg/Kg	1	4/7/2020 11:48:06 AM	51605
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2020 11:48:06 AM	51605
Surr: DNOP	101	55.1-146		%Rec	1	4/7/2020 11:48:06 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3700	460		mg/Kg	100	4/7/2020 3:31:58 PM	G67914
Surr: BFB	120	66.6-105	S	%Rec	100	4/7/2020 3:31:58 PM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	13	0.12		mg/Kg	5	4/7/2020 11:35:47 AM	B67914
Toluene	6.4	0.23		mg/Kg	5	4/7/2020 11:35:47 AM	B67914
Ethylbenzene	9.4	0.23		mg/Kg	5	4/7/2020 11:35:47 AM	B67914
Xylenes, Total	78	9.3		mg/Kg	100	4/7/2020 3:31:58 PM	B67914
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	5	4/7/2020 11:35:47 AM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-50
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:35:00 PM
Lab ID: 2004232-008 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	4/7/2020 11:37:49 AM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/7/2020 12:12:39 PM	51605
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/7/2020 12:12:39 PM	51605
Surr: DNOP	97.1	55.1-146		%Rec	1	4/7/2020 12:12:39 PM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	12	4.9		mg/Kg	1	4/7/2020 3:55:25 PM	G67914
Surr: BFB	119	66.6-105	S	%Rec	1	4/7/2020 3:55:25 PM	G67914
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	4/7/2020 3:55:25 PM	B67914
Toluene	ND	0.049		mg/Kg	1	4/7/2020 3:55:25 PM	B67914
Ethylbenzene	ND	0.049		mg/Kg	1	4/7/2020 3:55:25 PM	B67914
Xylenes, Total	0.31	0.098		mg/Kg	1	4/7/2020 3:55:25 PM	B67914
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	4/7/2020 3:55:25 PM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-51
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:40:00 PM
Lab ID: 2004232-009 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/7/2020 12:14:52 PM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/7/2020 12:37:11 PM	51605
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/7/2020 12:37:11 PM	51605
Surr: DNOP	89.8	55.1-146		%Rec	1	4/7/2020 12:37:11 PM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/7/2020 12:23:05 PM	G67914
Surr: BFB	95.2	66.6-105		%Rec	1	4/7/2020 12:23:05 PM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/7/2020 12:23:05 PM	B67914
Toluene	ND	0.045		mg/Kg	1	4/7/2020 12:23:05 PM	B67914
Ethylbenzene	ND	0.045		mg/Kg	1	4/7/2020 12:23:05 PM	B67914
Xylenes, Total	ND	0.091		mg/Kg	1	4/7/2020 12:23:05 PM	B67914
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	4/7/2020 12:23:05 PM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-52
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:45:00 PM
Lab ID: 2004232-010 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/7/2020 12:27:13 PM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/7/2020 10:54:28 AM	51605
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/7/2020 10:54:28 AM	51605
Surr: DNOP	84.4	55.1-146		%Rec	1	4/7/2020 10:54:28 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/7/2020 12:46:45 PM	G67914
Surr: BFB	94.8	66.6-105		%Rec	1	4/7/2020 12:46:45 PM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	4/7/2020 12:46:45 PM	B67914
Toluene	ND	0.039		mg/Kg	1	4/7/2020 12:46:45 PM	B67914
Ethylbenzene	ND	0.039		mg/Kg	1	4/7/2020 12:46:45 PM	B67914
Xylenes, Total	ND	0.078		mg/Kg	1	4/7/2020 12:46:45 PM	B67914
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	4/7/2020 12:46:45 PM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-53
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:50:00 PM
Lab ID: 2004232-011 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/7/2020 12:39:34 PM	51612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/7/2020 11:16:28 AM	51605
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/7/2020 11:16:28 AM	51605
Surr: DNOP	86.7	55.1-146		%Rec	1	4/7/2020 11:16:28 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/7/2020 1:34:00 PM	G67914
Surr: BFB	95.0	66.6-105		%Rec	1	4/7/2020 1:34:00 PM	G67914
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/7/2020 1:34:00 PM	B67914
Toluene	ND	0.045		mg/Kg	1	4/7/2020 1:34:00 PM	B67914
Ethylbenzene	ND	0.045		mg/Kg	1	4/7/2020 1:34:00 PM	B67914
Xylenes, Total	ND	0.091		mg/Kg	1	4/7/2020 1:34:00 PM	B67914
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	4/7/2020 1:34:00 PM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004232**
Date Reported: **4/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-54
Project: Blanco Vent Tank **Collection Date:** 4/6/2020 12:55:00 PM
Lab ID: 2004232-012 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	4/7/2020 10:12:29 AM	51611
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/7/2020 11:38:36 AM	51605
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/7/2020 11:38:36 AM	51605
Surr: DNOP	91.3	55.1-146		%Rec	1	4/7/2020 11:38:36 AM	51605
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	4/7/2020 1:57:30 PM	G67914
Surr: BFB	92.5	66.6-105		%Rec	1	4/7/2020 1:57:30 PM	G67914
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	4/7/2020 1:57:30 PM	B67914
Toluene	ND	0.041		mg/Kg	1	4/7/2020 1:57:30 PM	B67914
Ethylbenzene	ND	0.041		mg/Kg	1	4/7/2020 1:57:30 PM	B67914
Xylenes, Total	ND	0.082		mg/Kg	1	4/7/2020 1:57:30 PM	B67914
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	4/7/2020 1:57:30 PM	B67914

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004232**

09-Apr-20

Client: ENSOLUM

Project: Blanco Vent Tank

Sample ID: **MB-51611**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51611**	RunNo: **67907**							
Prep Date: **4/7/2020**	Analysis Date: **4/7/2020**	SeqNo: **2347333**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51611**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51611**	RunNo: **67907**							
Prep Date: **4/7/2020**	Analysis Date: **4/7/2020**	SeqNo: **2347334**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	90	110			

Sample ID: **MB-51612**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51612**	RunNo: **67908**							
Prep Date: **4/7/2020**	Analysis Date: **4/7/2020**	SeqNo: **2347372**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51612**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51612**	RunNo: **67908**							
Prep Date: **4/7/2020**	Analysis Date: **4/7/2020**	SeqNo: **2347373**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004232**
09-Apr-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **2004232-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-43** Batch ID: **51605** RunNo: **67897**
Prep Date: **4/7/2020** Analysis Date: **4/7/2020** SeqNo: **2347618** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	190	9.3	46.69	144.6	96.2	47.4	136			
Surr: DNOP	4.6		4.669		99.0	55.1	146			

Sample ID: **2004232-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-43** Batch ID: **51605** RunNo: **67897**
Prep Date: **4/7/2020** Analysis Date: **4/7/2020** SeqNo: **2347619** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	180	10	49.85	144.6	65.7	47.4	136	6.62	43.4	
Surr: DNOP	4.8		4.985		97.0	55.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004232**
09-Apr-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346829** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.8	66.6	105			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346830** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.8	80	120			
Surr: BFB	1000		1000		103	66.6	105			

Sample ID: **2004232-002ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-44**	Batch ID: **G67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346831** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.0	19.84	0	89.5	69.1	142			
Surr: BFB	870		793.6		109	66.6	105			S

Sample ID: **2004232-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-44**	Batch ID: **G67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346832** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.0	19.84	0	92.6	69.1	142	3.43	20	
Surr: BFB	870		793.6		110	66.6	105	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004232**
09-Apr-20

Client: ENSOLUM
Project: Blanco Vent Tank

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346860** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346861** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Sample ID: **2004232-003ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-45**	Batch ID: **B67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346862** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.020	0.8137	0	89.4	78.5	119			
Toluene	0.75	0.041	0.8137	0	92.6	75.7	123			
Ethylbenzene	0.77	0.041	0.8137	0	94.4	74.3	126			
Xylenes, Total	2.3	0.081	2.441	0	94.7	72.9	130			
Surr: 4-Bromofluorobenzene	0.82		0.8137		100	80	120			

Sample ID: **2004232-003amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-45**	Batch ID: **B67914**	RunNo: **67914**
Prep Date:	Analysis Date: **4/7/2020**	SeqNo: **2346863** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.020	0.8137	0	88.0	78.5	119	1.60	20	
Toluene	0.74	0.041	0.8137	0	90.9	75.7	123	1.81	20	
Ethylbenzene	0.75	0.041	0.8137	0	92.8	74.3	126	1.78	20	
Xylenes, Total	2.3	0.081	2.441	0	93.1	72.9	130	1.73	20	
Surr: 4-Bromofluorobenzene	0.83		0.8137		102	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2004232** RcptNo: 1

Received By: **Isaiah Ortiz** **4/7/2020 8:05:00 AM** I-OX

Completed By: **Isaiah Ortiz** **4/7/2020 8:07:31 AM** I-OX

Reviewed By: LB 4/7/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: DAD 4/7/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			
2	2.2	Good	Yes			

Chain-of-Custody Record

Turn-Around Time: Same Day 100% ☐ Standard ☒ Rush 4-7-20

Client: Ensolum

Project Name: Blanco Vent Tank

Mailing Address: 606 S Big Grande Suit A 87410

Project #: 05A1226012

Phone #:

email or Fax#:

Project Manager: K Summers

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

Sampler: C DAppolito

On Ice: ☐ Yes ☐ No

☐ EDD (Type)

# of Coolers: 1.3 - 0.1 (CF) 1.2°C

Cooler Temp(including CF): 7.3 - 0.1 (CF) 7.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2004232	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/6	1200	S	S-43	1 4oz Jar	Cool	-001	X	X					X			
4/6	1205	S	S-44		Cool	-002	X	X					X			
4/6	1210	S	S-45		Cool	-003	X	X					X			
4/6	1215	S	S-46		Cool	-004	X	X					X			
4/6	1220	S	S-47		Cool	-005	X	X					X			
4/6	1225	S	S-48		Cool	-006	X	X					X			
4/6	1230	S	S-49		Cool	-007	X	X					X			
4/6	1235	S	S-50		Cool	-008	X	X					X			
4/6	1240	S	S-51		Cool	-009	X	X					X			
4/6	1245	S	S-52		Cool	-010	X	X					X			
4/6	1250	S	S-53		Cool	-011	X	X					X			
4/6	1255	S	S-54		Cool	-012	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/6	1435		Christen Wheet		4/6/20	1435
4/6/20	1814	Christen Waeters		courier	4/7/20	0805

Remarks: Bill to Ensolum

Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 11, 2023

Kyle Summers

ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Blanco Storage Vent Tank OrderNo.: 2204489

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/12/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 26, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204489**
Date Reported: **5/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SB-1H@4'-5'
Project: Blanco Storage Vent Tank
Collection Date: 4/11/2022 3:20:00 PM
Lab ID: 2204489-001 **Matrix:** SOIL **Received Date:** 4/12/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	ND	60		mg/Kg	20	4/15/2022 1:23:06 AM	66856
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/14/2022 3:24:54 PM	66831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/14/2022 3:24:54 PM	66831
Surr: DNOP	92.0	51.1-141		%Rec	1	4/14/2022 3:24:54 PM	66831
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 2:32:41 PM	66801
Surr: BFB	100	37.7-212		%Rec	1	4/14/2022 2:32:41 PM	66801
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	0.039	0.024		mg/Kg	1	4/14/2022 2:32:41 PM	66801
Toluene	ND	0.048		mg/Kg	1	4/14/2022 2:32:41 PM	66801
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 2:32:41 PM	66801
Xylenes, Total	ND	0.095		mg/Kg	1	4/14/2022 2:32:41 PM	66801
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/14/2022 2:32:41 PM	66801

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2204489**
Date Reported: **5/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SB-1H@10.5'-11.5'
Project: Blanco Storage Vent Tank
Collection Date: 4/11/2022 3:25:00 PM
Lab ID: 2204489-002 **Matrix:** SOIL
Received Date: 4/12/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	ND	60		mg/Kg	20	4/15/2022 1:35:26 AM	66856
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/14/2022 3:56:22 PM	66831
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 3:56:22 PM	66831
Surr: DNOP	93.6	51.1-141		%Rec	1	4/14/2022 3:56:22 PM	66831
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 4:06:49 PM	66801
Surr: BFB	99.5	37.7-212		%Rec	1	4/14/2022 4:06:49 PM	66801
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	4/14/2022 4:06:49 PM	66801
Toluene	ND	0.049		mg/Kg	1	4/14/2022 4:06:49 PM	66801
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 4:06:49 PM	66801
Xylenes, Total	ND	0.098		mg/Kg	1	4/14/2022 4:06:49 PM	66801
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/14/2022 4:06:49 PM	66801

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2204489**
Date Reported: **5/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SB-1H@13.5'-14.5'
Project: Blanco Storage Vent Tank
Collection Date: 4/11/2022 3:30:00 PM
Lab ID: 2204489-003 **Matrix:** SOIL
Received Date: 4/12/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	ND	60		mg/Kg	20	4/15/2022 6:18:22 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	42	9.3		mg/Kg	1	4/21/2022 9:13:12 PM	66831
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	4/21/2022 9:13:12 PM	66831
Surr: DNOP	104	51.1-141		%Rec	1	4/21/2022 9:13:12 PM	66831
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2022 5:40:37 PM	66801
Surr: BFB	101	37.7-212		%Rec	1	4/14/2022 5:40:37 PM	66801
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	4/14/2022 5:40:37 PM	66801
Toluene	ND	0.050		mg/Kg	1	4/14/2022 5:40:37 PM	66801
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2022 5:40:37 PM	66801
Xylenes, Total	ND	0.10		mg/Kg	1	4/14/2022 5:40:37 PM	66801
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/14/2022 5:40:37 PM	66801

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2204489**
Date Reported: **5/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SB-1H@21.5'-22'
Project: Blanco Storage Vent Tank
Collection Date: 4/11/2022 3:35:00 PM
Lab ID: 2204489-004 **Matrix:** SOIL
Received Date: 4/12/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	ND	60		mg/Kg	20	4/15/2022 6:55:35 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/14/2022 5:09:23 PM	66831
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/14/2022 5:09:23 PM	66831
Surr: DNOP	92.1	51.1-141		%Rec	1	4/14/2022 5:09:23 PM	66831
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 6:03:59 PM	66801
Surr: BFB	99.2	37.7-212		%Rec	1	4/14/2022 6:03:59 PM	66801
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	4/14/2022 6:03:59 PM	66801
Toluene	ND	0.048		mg/Kg	1	4/14/2022 6:03:59 PM	66801
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 6:03:59 PM	66801
Xylenes, Total	ND	0.096		mg/Kg	1	4/14/2022 6:03:59 PM	66801
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/14/2022 6:03:59 PM	66801

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204489**

11-May-23

Client: ENSOLUM

Project: Blanco Storage Vent Tank

Sample ID: **MB-66856** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **66856** RunNo: **87263**

Prep Date: **4/14/2022** Analysis Date: **4/14/2022** SeqNo: **3085785** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66856** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **66856** RunNo: **87263**

Prep Date: **4/14/2022** Analysis Date: **4/14/2022** SeqNo: **3085786** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Sample ID: **MB-66883** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **66883** RunNo: **87282**

Prep Date: **4/15/2022** Analysis Date: **4/15/2022** SeqNo: **3087147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66883** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **66883** RunNo: **87282**

Prep Date: **4/15/2022** Analysis Date: **4/15/2022** SeqNo: **3087148** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204489**
11-May-23

Client: ENSOLUM
Project: Blanco Storage Vent Tank

Sample ID: **MB-66831** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **66831** RunNo: **87242**
Prep Date: **4/13/2022** Analysis Date: **4/14/2022** SeqNo: **3086050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.5	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204489**

11-May-23

Client: ENSOLUM

Project: Blanco Storage Vent Tank

Sample ID: **mb-66801** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **66801** RunNo: **87255**

Prep Date: **4/12/2022** Analysis Date: **4/14/2022** SeqNo: **3085360** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		105	37.7	212			

Sample ID: **lcs-66801** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **66801** RunNo: **87255**

Prep Date: **4/12/2022** Analysis Date: **4/14/2022** SeqNo: **3085361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204489**

11-May-23

Client: ENSOLUM

Project: Blanco Storage Vent Tank

Sample ID: **mb-66801** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **66801** RunNo: **87255**

Prep Date: **4/12/2022** Analysis Date: **4/14/2022** SeqNo: **3085401** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **LCS-66801** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **66801** RunNo: **87255**

Prep Date: **4/12/2022** Analysis Date: **4/14/2022** SeqNo: **3085402** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.5	80	120			
Toluene	0.88	0.050	1.000	0	87.6	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2204489 RcptNo: 1

Received By: Cheyenne Cason 4/12/2022 7:35:00 AM

Completed By: Sean Livingston 4/12/2022 8:35:30 AM

Reviewed By: CMC 4/12/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPG 4-12-2022

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Blanco Storage Vent Tank

Project #: 05A1226012

Project Manager: Ksummers

Sampler: RDeechilly

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.1-0.2=3.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204489	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
4/11/22	1520	S	SB-1H @ 4'-5'	1x4oz Jar	cool	001	X	X									X
4/11/22	1525	S	SB-1H @ ~~14~~ 10.5'-11.5'	1x4oz Jar	cool	002	X	X									X
4/11/22	1530	S	SB-1H @ ~~14~~ 13.5'-14.5'	1x4oz Jar	cool	003	X	X									X
4/11/22	1535	S	SB-1H @ ~~22~~ 21.5'-22'	1x4oz Jar	cool	004	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/11/22	1725				4/11/22	1725
4/11/22	1807			Courier	4/12/22	0735

Remarks: Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ENSOLUM

APPENDIX G

2022 Soil Boring Log

BORING LOG SB-1H

PROJECT NUMBER 05A1226012
PROJECT NAME Blanco Vent Tank Release
CLIENT Enterprise Field Services, LLC
LOCATION San Juan County, NM

DRILLING DATE 4/8/22, 4/11/22
DRILLING COMPANY Enviro-Drill
BORING METHOD Air Rotary / HSA
TOTAL DEPTH 22 ft
BOREHOLE DIAMETER 10" surface, 4" core.

NORTH COORDINATE 36.730044 N
WEST COORDINATE 107.965810 W
SURFACE COMPLETION Plugged
LOGGED BY R.Deechilly
SAMPLER R. Deechilly

Notes:

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Borehole Diagram
0						**0'-3' Hydrovac (no samples collected)**	
1							
2							
3						**3'-6' Hollow Stem Auger (split spoon sampling)**	
4	0					Fine- to medium-grained sand and 1/2" gravel fill at top of boring, (3'-6') - weathered sandstone: silty shaley sandstone, moderate yellowish brown (10YR 5/4) to pale yellowish brown (10YR 6/2) and yellowish gray (5Y 7/2), soft, crumbly, minimal clay content, lenses of shale at approximately 4.5', dry, no hydrocarbon odor.	
5	1.5	SB-1H (4'-5')				**6'-22' Air Rotary**	
6						Sandstone: fine- to medium-grained, occasional lenses of shaley sandstone at approximately 18' and 20'-21'	
7						Switched to 5.5' core barrel sampler at approximately 6.5' bgs (6'-11') - very light gray (N8) to pale yellowish brown (10YR 6/2) and yellowish gray (5Y 7/2) and light olive gray (5Y 5/2), medium to coarse grained sandstone from 6'-22', dry to moist from 6'-22', no hydrocarbon odor from 6'-10'	
8							
9	0.1						
10	0.1	SB-1H (10.5'-11.5')					
11	280					(11'-14') - medium dark gray (N4), moderate to very mild hydrocarbon odor from 11'-14', seam or weathered fracture at 11'-11.25' exhibits dark material and highest PID.	portland cement
12	36						
13							
14	9.9	SB-1H (13.5'-14.5')				(14'-20') - pale yellowish brown (10YR 6/2) and yellowish gray (5Y 7/2) and dusky yellow (5Y 6/4), slight hydrocarbon odor at 14'	
15	4.4						
16	4.5 3.4						
17	2.2						
18	0.3						
19	0.8						
20	0.2					(20'-22') - pale yellowish brown (10YR 6/2), yellowish gray (5Y 7/2), dusky yellow (5Y 6/4), and bluish white (5B 9/1), apparent bits of burned wood, no hydrocarbon odor	
21	0.5						
22	0.5	SB-1H (21.5'-22')				TD at 22 ft bgs	
23							
24							

Disclaimer This bore log should not be used separately from this report..

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 478550

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nVF1901530473**
Incident Name	**NVF1901530473 BLANCO VENT TANK RELEASE @ 0**
Incident Type	**Release Other**
Incident Status	**Deferral Request Received**
Incident Facility	**[fVF1901529331] BLANCO VENT TANK RELEASE**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BLANCO VENT TANK RELEASE
Date Release Discovered	12/07/2011
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Condensate | Released: 5 BBL (Unknown Released Amount) | Recovered: 0 BBL | Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: William Jacobson Title: Environmental Supervisor Email: wtjacobson@eprod.com Date: 06/24/2025

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QUESTIONS (continued)

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	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Zero feet, overlying, or within area
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	490
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	7900
GRO+DRO (EPA SW-846 Method 8015M)	7660
BTEX (EPA SW-846 Method 8021B or 8260B)	490
Benzene (EPA SW-846 Method 8021B or 8260B)	26
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	12/14/2011
On what date will (or did) the final sampling or liner inspection occur	04/11/2022
On what date will (or was) the remediation complete(d)	04/11/2022
What is the estimated surface area (in square feet) that will be reclaimed	22610
What is the estimated volume (in cubic yards) that will be reclaimed	3350
What is the estimated surface area (in square feet) that will be remediated	22609
What is the estimated volume (in cubic yards) that will be remediated	11670
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: William Jacobson Title: Environmental Supervisor Email: wtjacobson@eprod.com Date: 06/24/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Due to operational and safety considerations, Enterprise requests deferment of final remediation and reclamation for the areas identified on Figure 4 (Appendix A) until after the facilities or affected portions of the facilities are decommissioned (evaporation pond and pipeline), to avoid damaging existing structures/appurtenances at the facility.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	900
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	873
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	ENTERPRISE FARMINGTON GS [fAPP2122931016]
Enter the well API (30-) on which this deferral should be granted	*Not answered.*
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: William Jacobson Title: Environmental Supervisor Email: wtjacobson@eprod.com Date: 06/24/2025

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QUESTIONS (continued)

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**477757**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/11/2022**
What was the (estimated) number of samples that were to be gathered	**4**
What was the sampling surface area in square feet	**1**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 478550

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 478550
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	8/5/2025